

8-13-15 Name change:SSM HE

**Sewer  
Acct. #:**



**4112195100**

**Company: ST LOUIS UNIVERSITY HOSPITAL**

**Address: 3635 & 3655 Vista Ave.**

**City: St. Louis**

**State and Zip: MO 63110**

<b>Ind_id</b>	<b>File Code</b>	<b>File Description</b>
64140	40	PERMIT



## Metropolitan St. Louis Sewer District

Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, MO 63147-2913  
Phone: 314.768.6200 www.stlmsd.com

VIA CERTIFIED MAIL # 70153430000104871277

September 16, 2020

Madison Himelright  
Environmental Safety Specialist  
**SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**  
1015 Corporate Square Dr., Suite 110  
St. Louis, MO 63132

**Re: Discharge Permit No: 1020548801**  
**For premise at: 3635 & 3655 Vista Avenue, Saint Louis, MO 63110**

Dear Ms. Himelright:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Removal of silver monitoring at Sample Points 001 & 002
- Removal of Special Condition A.3: Sampling / Reporting Requirement for Ordinance Total Phenols using EPA Method 420.1. This was an allowance made when MSD's small river total phenols local limit was only 0.15 mg/L. However, that limit no longer applies, and all MSD total phenols local limits are 21 mg/L.

The previous permit, effective September 1, 2015, is voided as of the effective date of the enclosed permit.

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

A draft version of the permit was previously sent to you. MSD received no comments back regarding the draft.

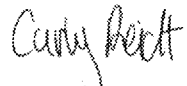
Please be aware that an annual permit fee will be added to your monthly sewer bill, or you will receive a separate bill, to cover administrative costs associated with the permit, as provided for under MSD ordinance 12413. The fee is normally added to the last bill of each calendar year, or shortly thereafter.

MSD 037121

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8762, if you have any questions.

Sincerely,

**METROPOLITAN ST. LOUIS SEWER DISTRICT**



Carly Reidt  
Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit, Radioactive Materials Discharge Report, Self-monitoring Report Form, Self-monitoring Report Instructions

bv

cc: Doug Mendoza  
Dave Kupke

METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548801

EFFECTIVE DATE: September 01, 2020  
EXPIRATION DATE: August 31, 2025

ISSUED TO: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL  
3635 & 3655 Vista Avenue  
St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5  
SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 15048, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

  
\_\_\_\_\_  
Carly Reidt  
Assistant Engineer

  
\_\_\_\_\_  
Douglas M. Mendoza, P.E.  
Mgr. of Industrial Pretreatment



## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH in driveway W of loading dock, 50' N of Vista, near SW corner of main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 65,256

WASTEWATER SOURCE AND CATEGORY: Hospital Waste (including lab waste) + Boiler Blowdown + Kitchen Waste + Non-Contact Cooling Water (HVAC) + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION: MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 38,254

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 5,626

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: 6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 302

WASTEWATER SOURCE AND CATEGORY: Non-Contact Cooling Water + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: MH 93' S, 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 3,150

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## PERMIT CONDITIONS

### SECTION I - GENERAL CONDITIONS:

#### A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

- Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
- For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.
- For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 15048. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 15048. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

<u>For the calendar quarter of:</u>	<u>The report must be postmarked no later than:</u>
January 1 through March 31	April 28
April 1 through June 30	July 28
July 1 through September 30	October 28
October 1 through December 31	January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by October 28, 2020. For non-quarterly self-monitoring requirements, the permit year commences on July 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

#### B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 15048, significant new or increased discharge means:
- Any discharge from a new process or facility or a new source.
  - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
  - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
  - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 15048.
  - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
  - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 15048.
  - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

#### C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to



continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

#### D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

#### E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

#### F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 15048, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

#### G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

#### H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 15048 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 15048.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 15048.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District  
Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

## SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

### A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

#### A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points 004 & 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

#### A.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005, may, at times, convey storm water in addition to wastewater regulated by this permit. The self-monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

### B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

#### B.1. Certification Requirement for Sampling Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

#### B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
  - 5 curies Hydrogen-3
  - 1 curie Carbon-14
  - 1 curie for all other radioactive materials combined
- (2) For all other materials:
  - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 15048.

Permit No.:	1020548801
Page No.:	13
Effective Date:	September 01, 2020

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

#### C. SPECIAL BILLING REPORTING REQUIREMENTS

##### C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on SIXTY-EIGHT (68) percent of the used water (on an annual basis) being discharged to the District from account numbers 1122333 & 1123327. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

**THIS IS THE LAST PAGE OF THIS PERMIT**

# METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

## PART I: IDENTIFYING INFORMATION

Company Name: **SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 1020548801      Effective Date: 09/01/2020      Expiration Date: 08/31/2025

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☐ (JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: .....

Analyses Performed By: .....

## PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

You must complete and sign the certification statements on the second page.

**PART III: SPECIAL CERTIFICATION STATEMENTS**

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

**A - No Change in Wastewater Discharge at Sampling Points with No Monitoring Required**

For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:

\_\_\_\_\_ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.

**D - Grab in Lieu of Composite Represents Wastewater Discharge**

For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:

\_\_\_\_\_ I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

**PART IV: GENERAL CERTIFICATION STATEMENTS**

**B. Certify Discharge Monitoring Report & Attachments**

All permittees must sign and complete the information below:

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: \_\_\_\_\_

Title: \_\_\_\_\_ Telephone: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Send to: [DECPT@stlmsd.com](mailto:DECPT@stlmsd.com)

If you do not have access to email, the form may be mailed to:

METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
10 GRAND AVE  
ST. LOUIS, MO 63147

Please do not submit both an emailed report and a mailed report.



## INSTRUCTIONS FOR COMPLETING INDUSTRIAL USER SELF MONITORING REPORT

- |                                       |               |  |                   |   |                   |  |  |       |
|---------------------------------------|---------------|--|-------------------|---|-------------------|--|--|-------|
| MSD SAMPLE POINT REFERENCE NUMBERS    |               | ⇒  | 001               |   | 002               |  |  |       |
| DATES ON WHICH SAMPLES WERE COLLECTED |               | ⇒  | 1-8-2010          |   | 1-8 to 1-9-2010   |  |  |       |
| TIMES AT WHICH SAMPLES WERE COLLECTED |               | ⇒  | 8:30 am - 5:00 pm |   | 9:00 am - 8:00 am |  |  |       |
| PARAMETER                             | LIMIT         | RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW<br>( G=grab, C=composite, M=measured flow, E=estimated flow ) |                   |   |                   |  |  | UNITS |
| FLOW                                  |               | E  | 4800              | E | 35000             |  |  | GPD   |
| Chemical Oxygen Demand                | —             | C  | 550               | C | 790               |  |  | mg/L  |
| Cadmium                               | 0.69/0.2<br>6 | C  | < 0.001           | C | 0.17              |  |  | mg/L  |

- METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
10 E. Grand Ave.  
St. Louis, MO 63147

1

MSD 037139



### ADDITIONAL REPORTS

In addition to quarterly self monitoring reports, the General and Special Conditions of your permit require that MSD be advised of certain events or changes at your facility. This is a reminder of those reporting requirements. Please review your permit carefully for the specifics of any of these requirements which may apply to you.

#### I. GENERAL CONDITION REPORTING REQUIREMENTS

1. If you monitor pH or temperature continuously at any discharge point, you must include, with each quarterly self monitoring report, a summary of pH or temperature excursions for each month in the quarter. See General Condition I.A.7 in your permit.
2. If any sampling, using approved methods, indicates a violation of any permit limitation, MSD must be notified within one business day of your becoming aware of the violation. In addition you must resample the discharge and the results of resampling must be submitted to MSD within 30 days of your becoming aware of the violation. See General Condition I.A.10 in your permit.
3. Any significant new or increased discharge must be reported at least 10 business days prior to the planned increase or addition. See General Condition I.B.2 in your permit.
4. Any problem discharge must be reported to MSD immediately by telephone and a written report submitted within 5 business days. See General Condition I.C.2 in your permit.
5. Any anticipated bypass of pretreatment facilities must be reported to MSD in advance. See General Condition I.D in your permit.

#### II. SPECIAL CONDITION REPORTING REQUIREMENTS

1. If any of the categorical limitations in your permit are based on production rates, a report on the production rates for each regulated process must accompany each quarterly self monitoring report.
2. If any of the categorical limitations in your permit have been calculated using the Combined Wastestream Formula (CWF), any conditions which may change the calculated limitations must be reported to MSD at least 10 business days prior to the change.
3. If you have been granted a credit for used water which does not enter the sewer, any conditions which may change the amount of that credit must be reported to MSD within 10 business days of your becoming aware of those changes.
4. If your permit contains a schedule of compliance, reports under that schedule must be submitted no later than 14 business days after each date in the schedule.
5. If you plan to divert any wastewater from an existing NPDES discharge point to the District's system, you must notify MSD at least 10 business days prior to the planned change.

#### III. OTHER INFORMATION REQUIREMENTS

1. If your permit waives monitoring at any sample point specified in your permit, or at any connection point not specified as a sample point in your permit, you must advise MSD any time the character of the waste discharge at any such point changes.
2. If your permit waives monitoring at any inactive connection points, you must advise MSD prior to activating any such point.

If there is any question concerning these reporting requirements, please contact us for clarification or assistance at 314-436-8710.



## Metropolitan St. Louis Sewer District

Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, MO 63147-2913  
Phone: 314.768.6200 [www.stlmsd.com](http://www.stlmsd.com)

August 17, 2020

Madison Himelright  
Environmental Safety Specialist  
**SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**  
1015 Corporate Square Dr., Suite 110  
St. Louis, MO 63132

**Re: Discharge Permit No: 1020548801**  
**For premise at: 3635 & 3655 Vista Avenue, Saint Louis, MO 63110**

Dear Ms. Himelright:

The Metropolitan St. Louis Sewer District has completed its review of your application for renewal of the Industrial Wastewater Discharge Permit for the above premise. The current permit expires on August 31, 2020.

Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the draft permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Removal of silver monitoring at Sample Points 001 & 002
- Removal of Special Condition A.3: Sampling / Reporting Requirement for Ordinance Total Phenols using EPA Method 420.1. This was an allowance made when MSD's small river total phenols local limit was only 0.15 mg/L. However, that limit no longer applies, and all MSD total phenols local limits are 21 mg/L.

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the draft permit, and we will proceed to issue the final permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8762, if you have any questions.

Sincerely,  
**METROPOLITAN ST. LOUIS SEWER DISTRICT**

*Carly Reidt*  
Carly Reidt  
Assistant Engineer

Enclosures: Draft Industrial Wastewater Discharge Permit

cc: Doug Mendoza  
Dave Kupke

METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548801

EFFECTIVE DATE: September 01, 2020  
EXPIRATION DATE: August 31, 2025

ISSUED TO: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL  
3635 & 3655 Vista Avenue  
St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5  
SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 15048, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

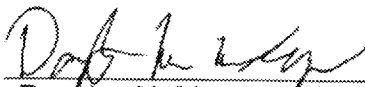
Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

  
\_\_\_\_\_  
Carly Reidt  
Assistant Engineer

  
\_\_\_\_\_  
Douglas M. Mendoza, P.E.  
Mgr. of Industrial Pretreatment

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH in driveway W of loading dock, 50' N of Vista, near SW corner of main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 65,256

WASTEWATER SOURCE AND CATEGORY: Hospital Waste (including lab waste) + Boiler Blowdown + Kitchen Waste + Non-Contact Cooling Water (HVAC) + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION: MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 38,254

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

### DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 5,626

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: 6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 302

WASTEWATER SOURCE AND CATEGORY: Non-Contact Cooling Water + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: MH 93' S, 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 3,150

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.



PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 15048. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 15048. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by October 28, 2020. For non-quarterly self-monitoring requirements, the permit year commences on July 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

#### B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 15048, significant new or increased discharge means:

- a. Any discharge from a new process or facility or a new source.
- b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 15048.
- e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 15048.
- g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

#### C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

#### D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

#### E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit;
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

#### F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 15048, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

#### G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

#### H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 15048 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 15048.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 15048.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District  
Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.



## SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

### A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

#### A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points 004 & 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

#### A.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005, may, at times, convey storm water in addition to wastewater regulated by this permit. The self-monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

### B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

#### B.1. Certification Requirement for Sampling Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

#### B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
  - 5 curies Hydrogen-3
  - 1 curie Carbon-14
  - 1 curie for all other radioactive materials combined
- (2) For all other materials:
  - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 15048.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

### C. SPECIAL BILLING REPORTING REQUIREMENTS

#### C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on SIXTY-EIGHT (68) percent of the used water (on an annual basis) being discharged to the District from account numbers 1122333 & 1123327. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:

FIRST TIME PERMIT ☐

RENEWAL ☒

Prepared by: C. Reidt

Date: 8/17/2020

Reviewed by: DMM

Date: 8/17/2020

PERMIT NO: 1020548801

EFFECTIVE DATE: 9/1/2020

EXPIRATION DATE: 8/31/2025

COMPANY NAME: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

PREMISE ADDRESS: 3635 & 3655 Vista Avenue, Saint Louis, MO 63110

RELATED ACCOUNT NUMBERS: 1020548701, 1045347701, 1055486900

TYPE OF OPERATION: Hospital & psychiatric care

TOTAL NUMBER OF SAMPLING POINTS: 5 or NO SAMPLING POINT ☐

NUMBER OF: ORDINANCE 5 CATEGORICAL 0 COMBINED 0

CATEGORICAL INDUSTRY? YES ☐ NO ☒

If Yes, 40 CFR \_\_\_\_\_ Subpart \_\_\_\_\_

PSES ☐ PSNS ☐

40 CFR \_\_\_\_\_ Subpart \_\_\_\_\_

PSES ☐ PSNS ☐

EXTRA STRENGTH SURCHARGE? YES ☐ NO ☒ If Yes, BOD \_\_\_\_\_ COD \_\_\_\_\_ TSS \_\_\_\_\_

RETURN FACTOR? YES ☒ NO ☐ If Yes, Acct #(s) 1122333,1123327 RF 0.68

SPECIAL CONDITIONS REQUIRED? YES ☒ NO ☐

All SMR start dates begin at start of calendar quarter: ☒ same as/containing permit effective date  
☐ following permit effective date

SMR General Cert. B attached to first permit SP (001) at reporting frequency of once/3mo? Y ☒ N ☐

SUPPORTING DOCUMENTS ATTACHED

"Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Sheet:

YES NO N/A

☒

☐

Pollutant & Limitations Documentation Sheets:

☒

☐

Permit Preparation Checklist:

☒

☐

Production-based Standards Calc. Sheets (for Sampling Points \_\_\_\_\_)

☐

☐

☒

Mass-based Standards Calc. Sheets (for Sampling Points \_\_\_\_\_)

☐

☐

☒

Equivalent Concentration Limits Sheets (for Sampling Points \_\_\_\_\_)

☐

☐

☒

Most Strict Limits Sheets (for Sampling Points \_\_\_\_\_)

☐

☐

☒

Combined Wastestream Formula Sheets (for Sampling Points \_\_\_\_\_)

☐

☐

☒

Text of any Customized Special Conditions: If Yes, for which SCs: \_\_\_\_\_

☐

☐

☒

Other: \_\_\_\_\_

COMMENTS (Include notations of any significant changes from last permit):

Monitoring for Ag removed from SP001 & 002; facility is now digital, and results from the last 5 years show Ag as non-detect, or at very low levels (results attached). SC D.3 (Sampling/Reporting Requirement for Ordinance Total Phenols) has been removed.



PERMIT NO: 1020548801

SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS

Special Condition:	# <u>E.18</u>	# _____	# _____	# _____	# _____	# _____	# _____	# _____
List any related SMR certifications:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
SMR certification frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List any related General Reports:	# <u>Rad. Discharge Report</u>	# _____	# _____	# _____	# _____	# _____	# _____	# _____
General Report frequency:	<u>once 3 mo</u>	[none]	[none]	[none]	[none]	[none]	[none]	[none]

Are all the SMR certifications listed above associated with first permit sample point (001)? YES ☐ NO ☐ N/A (No Certs) ☒

Check here if there are no non-SP-specific Special Conditions: ☐

SAMPLING POINT REFERENCE NUMBER: 001

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Boiler Blowdown + Hospital Waste (including Lab Waste) + Kitchen Waste + NCCW (HVAC) + Sanitary + Storm Water

Flow Rate: 65,256

Units: GPD

Basis for Flow Rate: 3/1/2020 IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 15048, CFR ____, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	N/A	once 3 mo	Standard for flow	
BOD	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
COD	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
O&G	Standard	Ordinance 15048	once 3 mo	Standard for volume	
pH	Standard	Ordinance 15048	once 3 mo	Standard for volume	
Temp	Standard	Ordinance 15048	once 3 mo	Standard for volume	
TSS	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
Ord. TTO	Standard	Ordinance 15048	once/year	Standard for volume, TTO's	
Total Phenols	Standard for hospitals	Ordinance 15048	once 3 mo	Standard for volume	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition:	# <u>D.10</u>	# _____	# _____	# _____	# _____	# _____	# _____	# _____
List related SMR certs:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
SMR cert frequency:	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>
List related General Rpts:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
General Rpt frequency:	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☒ NO ☐ Explain: Monitoring for Ag removed; facility has gone digital. Results from last 5 years show Ag as non-detect, or occasionally present at very low levels.

SAMPLING POINT REFERENCE NUMBER: 002

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Hospital Waste + Sanitary + Storm Water

Flow Rate: 38,254

Units: GPD

Basis for Flow Rate: 3/1/2020

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 15048, CFR____, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	N/A	once 3 mo	Standard for flow	
BOD	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
COD	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
O&G	Standard	Ordinance 15048	once 3 mo	Standard for volume	
pH	Standard	Ordinance 15048	once 3 mo	Standard for volume	
Temp	Standard	Ordinance 15048	once 3 mo	Standard for volume	
TSS	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
Ord. TTO	Standard	Ordinance 15048	once/year	Standard for volume, TTO's	
Total Phenols	Standard for hospitals	Ordinance 15048	once 3 mo	Standard for volume	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition:	# <u>D.10</u>	# _____	# _____	# _____	# _____	# _____	# _____	# _____
List related SMR certs:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
SMR cert frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List related General Rpts:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
General Rpt frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☒ NO ☐ Explain: Monitoring for Ag removed; facility has gone digital. Results from last 5 years show Ag as non-detect, or occasionally present at very low levels.

SAMPLING POINT REFERENCE NUMBER: 003

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Hospital Waste + Sanitary + Storm Water

Flow Rate: 5626

Units: GPD

Basis for Flow Rate: 3/1/2020 IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 15048, CFR____, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	N/A	once/mo	Standard for flow	
BOD	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
COD	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
O&G	Standard	Ordinance 15048	once 3 mo	Standard for volume	
pH	Standard	Ordinance 15048	once 3 mo	Standard for volume	
Temp	Standard	Ordinance 15048	once 3 mo	Standard for volume	
TSS	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
Ord. TTO	Standard	Ordinance 15048	once/year	Standard for volume, TTO's	
Total Phenols	Standard for hospitals	Ordinance 15048	once 3 mo	Standard for volume	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition:	# <u>D.10</u>	# _____	# _____	# _____	# _____	# _____	# _____	# _____
List related SMR certs:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
SMR cert frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List related General Rpts:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
General Rpt frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☐ NO ☒ Explain: \_\_\_\_\_

SAMPLING POINT REFERENCE NUMBER: 004

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Non-Contact Cooling Water + Storm Water

Flow Rate: 302

Units: GPD

Basis for Flow Rate: 3/1/2020 IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 15048, CFR____, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	N/A	once 3 mo	Standard for flow	
BOD	Standard	N/A	once/year	Standard for low volume	<input type="checkbox"/>
COD	Standard	N/A	once/year	Standard for low volume	<input type="checkbox"/>
O&G	Excluded; NCCW + storm water only	N/A	[none]	N/A; excluded	
pH	Standard	Ordinance 15048	once/year	Standard for low volume	
Temp	Standard	Ordinance 15048	once/year	Standard for low volume	
TSS	Standard	N/A	once/year	Standard for low volume	<input type="checkbox"/>
Ord. TTO	Excluded; NCCW + storm water only	N/A	[none]	N/A; excluded	
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition:	# <u>D.10</u>	# <u>E.3</u>	# <u>D.1</u>	# <u>E.4</u>	# _____	# _____	# _____	# _____
List related SMR certs:	# _____	# _____	# <u>D</u>	# <u>A</u>	# _____	# _____	# _____	# _____
SMR cert frequency:	[none]	[none]	once 3 mo	once 3 mo	[none]	[none]	[none]	[none]
List related General Rpts:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
General Rpt frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☐ NO ☒ Explain: \_\_\_\_\_

SAMPLING POINT REFERENCE NUMBER: 005

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Hospital Waste + Sanitary + Storm Water

Flow Rate: 3150

Units: GPD

Basis for Flow Rate: 3/1/2020 IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 15048, CFR____, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	N/A	once 3 mo	Standard for flow	
BOD	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
COD	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
O&G	Standard	Ordinance 15048	once 3 mo	Standard for volume	
pH	Standard	Ordinance 15048	once 3 mo	Standard for volume	
Temp	Standard	Ordinance 15048	once 3 mo	Standard for volume	
TSS	Standard	N/A	once 3 mo	Standard for volume	<input type="checkbox"/>
Ord. TTO	Standard	Ordinance 15048	once/year	Standard for volume, TTO's	
Total Phenols	Standard for hospitals	Ordinance 15048	once 3 mo	Standard for volume	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition:	# <u>D.10</u>	# <u>D.1</u>	# _____	# _____	# _____	# _____	# _____	# _____
List related SMR certs:	# _____	# <u>D</u>	# _____	# _____	# _____	# _____	# _____	# _____
SMR cert frequency:	[none]	once 3 mo	[none]	[none]	[none]	[none]	[none]	[none]
List related General Rpts:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
General Rpt frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☐ NO ☒ Explain: \_\_\_\_\_

PERMIT PREPARATION CHECKLIST – PART 1  
(Fact Sheet Attachment)

Company Name: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

Permit No.: 1020548801

Effective Date: 9/1/2020

Prepared by: C. Reidt

Date: 8/17/2020

REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT APPLICATION.  
ANSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT.

1. Are the correct SICs listed? Yes ☒ No ☐  
If no, add \_\_\_\_\_ delete: \_\_\_\_\_
2. Is user in surcharge? Yes ☐ No ☒  
If yes, date last certified: \_\_\_\_\_  
If yes, Special Condition F.2 applies.
3. Does user's premise have more than one MSD account? Yes ☒ No ☐  
If yes, were all account numbers correctly listed (including occupant #s)? Yes ☐ No ☒  
If no, have account numbers been corrected in database before proceeding? Yes ☒ No ☐
4. Does user have a Return Factor (RF) other than 1.00 for any account? Yes ☒ No ☐  
If yes, list acct no., RF and date last updated:  
Acct 1122333 RF 0.68 Updated 4/2/2001  
Acct 1123327 RF 0.68 Updated 1/27/2003  
If yes, Special Condition F.1 applies.
5. Does user discharge water (on-site) from a source not included in the MSD Billing system? Yes ☐ No ☒  
If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply.  
If yes, Is a flow meter used to record the volume discharged from this other source? Yes ☐ No ☐  
If yes, SC E.37 and Gen. Rpt. "Calibration of Discharge Flow Meter" apply.  
If no, SC E.38 applies.
6. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow? Yes ☒ No ☐  
If no, explain \_\_\_\_\_
7. Has user been granted any variances from ordinance limitations? Yes ☐ No ☒  
If yes, Application Date: \_\_\_\_\_  
Approval Date: \_\_\_\_\_, or approved as part of this permit issuance? Yes ☐  
(Variances cannot last more than 5 years after approval)  
If yes, Parameter(s) \_\_\_\_\_ at SP(s) \_\_\_\_\_  
If yes, Special Condition C.4 applies.
8. Have any numerical limitations been applied to user, in addition to those already contained in the ordinance? Yes ☐ No ☒  
If yes, Parameter(s) \_\_\_\_\_ at SP(s) \_\_\_\_\_  
Date limit(s) originally applied: \_\_\_\_\_, or as part of variance above? ☐  
If yes, are Special Conditions, other than the standard special conditions, required? Yes ☐ No ☐  
If yes, explain under "non-standard special conditions" question below.
9. Does user discharge any radioactive materials? Yes ☒ No ☐  
If yes, Special Condition E.18 & General Report "Radiation Discharge" apply.
10. Does user generate wastes and/or wastewater by genetic engineering research? Yes ☐ No ☒  
If yes, Special Condition B.12 applies.
11. Do all of the user's active connections, to MSD sewers, have identified SPs? Yes ☒ No ☐  
If no, explain: \_\_\_\_\_  
If no, is documentation sufficient to use Special Condition?  
E.5 ☐ "Sampling Not Required at Connections with NO SP and with SP on parts",  
E.6 ☐ "Sampling Not Required at Connection with NO SP on it",  
E.7 ☐ "Sampling Not Required at Connection with SP on only part of it", or  
E.8 ☐ "Sampling Not Required at Permittee with No SP"?  
If no, is compliance schedule necessary to obtain documentation? Yes ☐ No ☐  
If yes, Special Condition G.1 is necessary.
12. Does premise require use of "upstream/downstream" sampling? Yes ☐ No ☒  
If yes, Upstream SP # \_\_\_\_\_ & Downstream SP # \_\_\_\_\_  
If yes, Special Conditions D.11 and E.9 apply.
13. Are there any inactive connections to MSD sewers? Yes ☐ No ☒  
If yes, Special Condition E10 applies.
14. Have you verified, in PIMS, the SP location descriptions are complete and adequate? Yes ☒ No ☐
15. Have you verified, in PIMS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ☒ No ☐

16. Does user have any discharges subject to NPDES permitting regulations? Yes ☐ No ☒  
If yes, list MSD points & corresponding NPDES points: \_\_\_\_\_  
If yes, Special Condition E.14 applies.
17. Do any SPs convey stormwater in addition to regulated wastewater? Yes ☒ No ☐  
If yes, list points: 001, 002, 003, 004, & 005 and note on P&LD sheets.  
If yes, Special Condition D.10 applies.
18. Are any SPs Dry Justified in PIMS? Yes ☐ No ☒  
If yes, list points \_\_\_\_\_ and note on P&LD sheets.  
If yes, no self-monitoring is required, and Special Condition E.3 applies.
19. Are there SPs where user discharges only non-process wastewater? Yes ☒ No ☐  
If yes, does no self-monitoring requirement / Special Condition E.3 apply? Yes ☒ No ☐  
If yes, list points 004 and note on P&LD sheets.
20. Are there SPs with infrequent discharges that require coordination with the user for MSD to collect samples? Yes ☐ No ☒  
If yes, list points: \_\_\_\_\_ and note on P&LD sheets.  
If yes, Special Condition D.14 applies.
21. Is documentation adequate to allow use of grab samples in lieu of composites at any SPs? Yes ☒ No ☐  
If yes, list points 004 & 005 and note on P&LD sheets.  
If yes, Special Condition D.1 applies.
22. Are there SPs with self-monitoring requirements, but at less than a quarterly frequency, for all parameters? Yes ☒ No ☐  
If yes, list points 004 and note on P&LD sheets.  
If yes, Special Condition E.4 applies.
23. Can local limits TTO be removed from monitoring at any ordinance SPs? Yes ☒ No ☐  
If yes, list points 004 and explain on P&LD sheets.  
If yes, does TTO also need to be removed from MSD's monitoring? Yes ☐ No ☒  
If yes, discuss with inspector (name: \_\_\_\_\_) and explain why it had been monitored by MSD:
24. Does user have a history of compliance problems at this or a previous location? Yes ☐ No ☒  
If yes, explain problems: \_\_\_\_\_  
If yes, is a compliance schedule required? Yes ☐ No ☐  
If yes, Special Condition G.1 applies.  
Is supporting documentation attached? Yes ☐ No ☐  
If yes, are any other special requirements required? Yes ☐ No ☐  
Explain: \_\_\_\_\_
25. Has user chosen to employ continuous monitoring techniques for:  
pH? If yes, list points \_\_\_\_\_. SC E.29 & Gen Rpt "Cont-Mon pH Excursions" apply. Yes ☐ No ☒  
Temp? If yes, list points \_\_\_\_\_. SC E.30 & Gen Rpt "Cont-Mon Temp Excursions" apply. Yes ☐ No ☒  
LEL? If yes, list points \_\_\_\_\_. SC E.31 & Gen Rpt "Cont-Mon LEL Excursions" apply. Yes ☐ No ☒  
If yes for pH or Temp, have corresponding SP limits in PIMS been set to 'Alert Only' and does PIMS Monitoring Special Instructions have notes re. field 'violations'? Yes ☐ No ☐
26. Does the company perform any processes for which summaries of activities are needed? Yes ☐ No ☒  
If yes, Special Condition E.33 & General Report "Process Activity Summary" apply.
27. Are special billing conditions, other than the standard Special Conditions, needed? Yes ☐ No ☒  
If yes, describe: \_\_\_\_\_  
If yes, Special Condition F.4 applies.  
Does General Report "Discharge Volume for Billing" apply? Yes ☐ No ☐  
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
28. Are any Special Conditions, other than the standard special conditions, required? Yes ☐ No ☒  
If yes, explain: \_\_\_\_\_  
Which Special Condition applies? \_\_\_\_\_  
Is supporting documentation attached? Yes ☐ No ☐  
If no, explain: \_\_\_\_\_  
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
29. Is user a hauled waste industry, discharging its wastewater at the Hauled Waste Station? Yes ☐ No ☒  
If yes, have ☐ permit title, ☐ cover page, & ☐ general conditions been modified? Yes ☐ No ☐  
If yes, Special Conditions B.9, C.7, D.13, H.1, and H.2 apply.
30. Is user classified as a Categorical Industrial User (CIU)? Yes ☐ No ☒  
If yes, complete part 2 of checklist. If no, STOP here.



List all the Special Conditions from Part 1 that are applicable to this permit.  
 List those that are specific to a sampling point on that sampling point's fact sheet, too.  
 List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

General Report	Special Condition #	Sampling Point #
Rad. Discharge Report	E.18	N/A
	D.10	001, 002, 003, 004, & 005
	E.3	004
	D.1	004 & 005
	E.4	004

Facility Name	Monitoring Location Name	Sample Start
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	7/22/2015 11:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	10/21/2015 12:45
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	1/14/2016 12:40
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	3/21/2016 7:39
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	5/5/2016 12:45
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	7/20/2016 12:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	10/26/2016 13:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	1/11/2017 9:07
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	1/19/2017 11:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	4/12/2017 12:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	8/7/2017 10:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	10/30/2017 12:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	11/29/2017 8:43
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	1/18/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	4/19/2018 13:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	4/18/2018 13:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	8/28/2018 11:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	8/29/2018 11:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	10/23/2018 13:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	10/24/2018 13:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	2/27/2019 12:00

SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	2/26/2019 12:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	4/17/2019 11:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	4/18/2019 11:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	7/18/2019 14:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	7/19/2019 14:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	11/18/2019 11:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	11/19/2019 11:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	3/3/2020 8:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	1	3/4/2020 9:05

Sample End	Substance	Result	Unit	Sampler Name(s)	Data Source
7/23/2015 11:00	Silver (Total)	< .002	mg/L	430992	SMR
10/22/2015 12:45	Silver (Total)	< .002	mg/L	424483	SMR
1/15/2016 12:40	Silver (Total)	< .002	mg/L	467138	SMR
3/22/2016 7:27	Silver (Total)	0.002	mg/L	465378	Sample
5/6/2016 12:45	Silver (Total)	< .002	mg/L	461190	SMR
7/21/2016 12:00	Silver (Total)	< .002	mg/L	455348	SMR
10/27/2016 13:30	Silver (Total)	< .002	mg/L	449977	SMR
1/11/2017 9:07	Silver (Total)	0.0035	mg/L	489724	Sample
1/20/2017 11:00	Silver (Total)	< .002	mg/L	487830	SMR
4/13/2017 12:30	Silver (Total)	< .002	mg/L	482149	SMR
8/8/2017 10:30	Silver (Total)	< .002	mg/L	476167	SMR
10/31/2017 12:30	Silver (Total)	< .002	mg/L	470924	SMR
11/30/2017 8:31	Silver (Total)	0.0088	mg/L	473246	Sample
1/19/2018 12:30	Silver (Total)	< .002	mg/L	491598	SMR
4/19/2018 13:00	Silver (Total)		mg/L	777978	SMR
4/19/2018 13:00	Silver (Total)	< 0.002	mg/L	777978	SMR
8/29/2018 11:30	Silver (Total)	< 0.002	mg/L	715663	SMR
8/29/2018 11:30	Silver (Total)		mg/L	715663	SMR
10/24/2018 13:00	Silver (Total)	< 0.002	mg/L	715664	SMR
10/24/2018 13:00	Silver (Total)		mg/L	715664	SMR
2/27/2019 12:00	Silver (Total)		mg/L	715665	SMR

2/27/2019 12:00	Silver (Total)	< 0.002	mg/L	715665	SMR
4/18/2019 11:30	Silver (Total)	< 0.002	mg/L	715666	SMR
4/18/2019 11:30	Silver (Total)		mg/L	715666	SMR
7/19/2019 14:00	Silver (Total)	< 0.002	mg/L	715667	SMR
7/19/2019 14:00	Silver (Total)		mg/L	715667	SMR
11/19/2019 11:00	Silver (Total)	< 0.010	mg/L	715668	SMR
11/19/2019 11:00	Silver (Total)		mg/L	715668	SMR
3/4/2020 8:30	Silver (Total)	< 0.0050	mg/L	715669	SMR
3/4/2020 9:05	Silver (Total)		mg/L	715669	SMR

Facility Name	Monitoring Location Name	Sample Start
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	7/22/2015 10:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	10/21/2015 12:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	1/14/2016 12:15
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	3/21/2016 7:35
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	5/5/2016 12:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	7/20/2016 11:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	10/26/2016 13:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	1/10/2017 7:21
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	1/19/2017 12:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	4/12/2017 12:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	8/7/2017 10:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	10/30/2017 12:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	11/29/2017 8:39
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	1/18/2018 12:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	4/18/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	4/19/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	8/28/2018 11:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	8/29/2018 11:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	10/23/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	10/24/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	11/29/2018 7:45

SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	2/27/2019 11:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	2/26/2019 11:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	4/17/2019 12:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	4/18/2019 12:00
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	7/18/2019 11:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	7/19/2019 11:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	7/25/2019 7:44
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	11/18/2019 10:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	11/19/2019 10:30
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	3/3/2020 8:15
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2	3/4/2020 9:30

Sample End	Substance	Result	Unit	Sampler Name(s)	Data Source
7/23/2015 10:30	Silver (Total)	< .002	mg/L	430991	SMR
10/22/2015 12:30	Silver (Total)	< .002	mg/L	424481	SMR
1/15/2016 12:15	Silver (Total)	< .002	mg/L	467137	SMR
3/22/2016 7:23	Silver (Total)	0.001	mg/L	465371	Sample
5/6/2016 12:30	Silver (Total)	< .002	mg/L	461191	SMR
7/21/2016 11:30	Silver (Total)	< .002	mg/L	455347	SMR
10/27/2016 13:00	Silver (Total)	< .002	mg/L	449975	SMR
1/11/2017 7:09	Silver (Total)	< .0001	mg/L	489717	Sample
1/20/2017 12:00	Silver (Total)	< .002	mg/L	487829	SMR
4/13/2017 12:00	Silver (Total)	< .002	mg/L	482145	SMR
8/8/2017 10:00	Silver (Total)	< .002	mg/L	476166	SMR
10/31/2017 12:00	Silver (Total)	< .002	mg/L	470923	SMR
11/30/2017 8:27	Silver (Total)	< .0001	mg/L	473240	Sample
1/19/2018 12:00	Silver (Total)	< .002	mg/L	491597	SMR
4/19/2018 12:30	Silver (Total)	< 0.002	mg/L	777979	SMR
4/19/2018 12:30	Silver (Total)		mg/L	777979	SMR
8/29/2018 11:00	Silver (Total)	< 0.02	mg/L	715748	SMR
8/29/2018 11:00	Silver (Total)		mg/L	715748	SMR
10/24/2018 12:30	Silver (Total)	< 0.002	mg/L	715749	SMR
10/24/2018 12:30	Silver (Total)		mg/L	715749	SMR
11/30/2018 7:33	Silver (Total)	0.001	mg/L	765807	Sample



2/27/2019 11:30	Silver (Total)		mg/L	715750	SMR
2/27/2019 11:30	Silver (Total)	< 0.002	mg/L	715750	SMR
4/18/2019 12:00	Silver (Total)	< 0.002	mg/L	715751	SMR
4/18/2019 12:00	Silver (Total)		mg/L	715751	SMR
7/19/2019 11:30	Silver (Total)	< 0.002	mg/L	715752	SMR
7/19/2019 11:30	Silver (Total)		mg/L	715752	SMR
7/26/2019 7:32	Silver (Total)	< .0001	mg/L	784047	Sample
11/19/2019 10:30	Silver (Total)	< 0.010	mg/L	715753	SMR
11/19/2019 10:30	Silver (Total)		mg/L	715753	SMR
3/4/2020 8:15	Silver (Total)	< 0.0050	mg/L	715754	SMR
3/4/2020 9:30	Silver (Total)		mg/L	715754	SMR



**Metropolitan St. Louis  
Sewer District**

Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, MO 63147-2913  
Phone: 314.768.6200 www.stlmsd.com

September 23, 2015

Robert Hicks  
Director of Building Services  
**SSM HEALTH ST. LOUIS UNIVERSITY HOSPITAL**  
3635 Vista Avenue  
P.O. Box 15250  
St. Louis, MO 63110-0250

**Re: Discharge Permit No: 1020548800 - 3**  
**For premise at: 3635 & 3655 Vista Avenue**  
**St. Louis, MO 63110**

Dear Mr. Hicks:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- New name, new ownership
- Wastewater discharge volumes have been updated

The previous permit, effective January 1, 2012, is voided as of the effective date of the enclosed permit.

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the permit.

Please be aware that an annual permit fee will be added to your monthly sewer bill, or you will receive a separate bill, to cover administrative costs associated with the permit, as provided for under MSD ordinance 12413. The fee is normally added to the last bill of each calendar year, or shortly thereafter.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,  
**METROPOLITAN ST. LOUIS SEWER DISTRICT**

A handwritten signature in black ink, appearing to read "M. Rehmer".

Scott M. Rehmer  
Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit,  
Self-monitoring Report Form, Self-monitoring Report Instructions

cc: Doug Mendoza

METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548800 - 3

EFFECTIVE DATE: September 01, 2015  
EXPIRATION DATE: August 31, 2020

ISSUED TO: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL  
3635 & 3655 Vista Ave.  
St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5  
SAMPLING PT. REF NUMBER(S): 002, 003, 004, 001, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

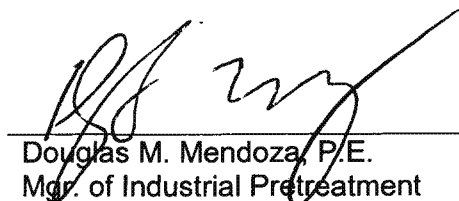
Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Scott M. Rehmer  
Assistant Engineer



Douglas M. Mendoza, P.E.  
Mgr. of Industrial Pretreatment

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH in driveway W of loading dock, 50' N of Vista, near SW corner of main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 69,840

WASTEWATER SOURCE AND CATEGORY: Boiler Blowdown + Hospital Waste (including x-ray waste, lab waste) + Kitchen Waste + Non-Contact Cooling Water (HVAC) + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION: MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 28,170

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 3,434

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	- 5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: 6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 281

WASTEWATER SOURCE AND CATEGORY: Non-Contact Cooling Water + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.



## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: MH 93 ' S, 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 2,915

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

### DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## PERMIT CONDITIONS

### SECTION I - GENERAL CONDITIONS:

#### A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

- Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
- For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.
- For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by October 28, 2015. For non-quarterly self-monitoring requirements, the permit year commences on January 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

#### B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:

- a. Any discharge from a new process or facility or a new source.
- b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
- e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
- g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

#### C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

**D. BYPASSING PROHIBITED:**

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

**E. PERMIT REVOCATION:**

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

**F. PERMIT TERMINATION OR MODIFICATION:**

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

**G. PERMIT RENEWAL:**

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

**H. PERMIT TRANSFER:**

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District  
Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

## SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

### A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

#### A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points 004 and 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

#### A.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005 may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

#### A.3. Sampling / Reporting Requirement for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

### B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

#### B.1. Certification Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

## B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
  - 5 curies Hydrogen-3
  - 1 curie Carbon-14
  - 1 curie for all other radioactive materials combined
- (2) For all other materials:
  - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

## C. SPECIAL BILLING REPORTING REQUIREMENTS

### C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on sixty-eight (68) percent of the used water (on an annual basis) being discharged to the District from both account numbers 00208066 and 00208067. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

**THIS IS THE LAST PAGE OF THIS PERMIT**





**PART III: SPECIAL CERTIFICATION STATEMENTS**

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

<b>A</b>	<b>NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED</b>  For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:  _____ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
<b>D</b>	<b>GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE</b>  For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample points, you are required to make the following certification for each report in which such authorized grab samples occur:  _____ I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

**PART IV: GENERAL CERTIFICATION STATEMENTS**

<b>B</b>	<b>DISCHARGE MONITORING REPORT CERTIFICATION</b>  <b>All permittees must sign and complete the information below:</b>  I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.  Print or type name of signing official: _____  Title: _____ Telephone: _____  Signature: _____ Date: _____
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**Metropolitan St. Louis  
Sewer District**

Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, MO 63147-2913  
Phone: 314.768.6200 www.stlmsd.com

August 20, 2015

Rodger Glaus, CHFM  
Administrative Director - ESH  
**SSM HEALTH ST. LOUIS UNIVERSITY HOSPITAL**  
1015 Corporate Square, Suite 110  
St. Louis, MO 63132

**Re: Discharge Permit No: 1020548800 - 2.1**  
**For premise at: 3635 & 3655 Vista Ave., St. Louis, MO 63110**

Dear Mr. Glaus:

The Metropolitan St. Louis Sewer District has completed its review of your application for renewal of the Industrial Wastewater Discharge Permit for the above premise. The current permit expires on August 31, 2015.

Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the draft permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- New name, new ownership
- Wastewater discharge volumes have been updated

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the draft permit, and we will proceed to issue the final permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,  
**METROPOLITAN ST. LOUIS SEWER DISTRICT**

Scott M. Rehmer  
Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit, Self-monitoring Report Form

cc: Doug Mendoza

PRIORITIES	PERFORMANCE	SERVICE
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MSD 037190

METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548800 - 3

EFFECTIVE DATE: September 01, 2015  
EXPIRATION DATE: August 31, 2020

ISSUED TO: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL  
3635 & 3655 Vista Ave.  
St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5  
SAMPLING PT. REF NUMBER(S): 002, 003, 004, 001, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

\_\_\_\_\_  
Scott M. Rehmer  
Assistant Engineer

\_\_\_\_\_  
Douglas M. Mendoza, P.E.  
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH in driveway W of loading dock, 50' N of Vista, near SW corner of main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 69,840

WASTEWATER SOURCE AND CATEGORY: Boiler Blowdown + Hospital Waste (including x-ray waste, lab waste) + Kitchen Waste + Non-Contact Cooling Water (HVAC) + Sanitary + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit	Limit Type	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	1	Instant	Once/3 mo
Total Suspended Solids [mg/L]		Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION: MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 28,170

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]		Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	30	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.84	Instant	Once/year
pH [SU]	14.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section IV.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\* See Section IV.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 3,434

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	6.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	6.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004
  
SAMPLING POINT LOCATION: 6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner
  
AVERAGE WASTEWATER FLOW (GPD): 281
  
WASTEWATER SOURCE AND CATEGORY: Non-Contact Cooling Water + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

- \*
Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\*
See Section I.A.2 of the permit conditions.

\*\*\*
Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\*
See Section I.A.1 of the permit conditions.



DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: MH 93 ' S, 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 2,915

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	6.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	6.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (or Fahrenheit).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- All facility and sample description information required on the District's reporting form.
- Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- Daily flows, with dates, for all measurements or estimates made within the quarter.
- Any certification statements required pursuant to the Special Conditions in Section II.
- Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by October 28, 2015. For non-quarterly self-monitoring requirements, the permit year commences on January 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

#### B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:

- Any discharge from a new process or facility or a new source.
- Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
- Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
- Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

#### C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

#### D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

#### E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit;
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

#### F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

#### G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District  
Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.



## SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

### A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

#### A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points 004 and 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

#### A.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005 may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.3 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

#### A.3. Sampling / Reporting Requirement for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

### B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

#### B.1. Certification Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

## B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
  - 5 curies Hydrogen-3
  - 1 curie Carbon-14
  - 1 curie for all other radioactive materials combined
- (2) For all other materials:
  - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in M&D Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

## C. SPECIAL BILLING REPORTING REQUIREMENTS

### C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on sixty-eight (68) percent of the used water (on an annual basis) being discharged to the District from both account numbers 00208066 and 00208067. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

**THIS IS THE LAST PAGE OF THIS PERMIT**



METROPOLITAN ST. LOUIS SEWER DISTRICT  
INDUSTRIAL USER SELF MONITORING REPORT

## PART I: IDENTIFYING INFORMATION

Company Name: **SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**

Effective Date: Sep 01, 2015

Expiration Date: Aug 31, 2020

Premise Address: 3635 & 3655 Vista Ave. St. Louis, MO 63110

☐ (APR-JUNE)

☐ (JULY-SEPT)

Q (OCT-DEC)

**Samples Collected By:**

### Analyses Performed By:

**PART II: ANALYTICAL RESULTS OF SELF MONITORING**

[illegible]

You must complete and sign the certification statements on the second page.

**PART III: SPECIAL CERTIFICATION STATEMENTS**

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

<b>A</b>	<b>NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED</b>
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:  _____ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
<b>D</b>	<b>GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE</b>
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample points, you are required to make the following certification for each report in which such authorized grab samples occur:  _____ I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

**PART IV: GENERAL CERTIFICATION STATEMENTS**

<b>B</b>	<b>DISCHARGE MONITORING REPORT CERTIFICATION</b>
	<b>All permittees must sign and complete the information below:</b>  I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.  Print or type name of signing official: _____ Title: _____ Telephone: _____ Signature: _____ Date: _____

METROPOLITAN ST. LOUIS SEWER DISTRICT  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:

FIRST TIME PERMIT ☐

RENEWAL ☒

Prepared by: S. REHMER

Date: 8/18/2015

Reviewed by: MM

Date: 7-29-15

PERMIT NO: 1020548800-3

EFFECTIVE DATE: 9/1/2015

EXPIRATION DATE: 8/31/2020

COMPANY NAME: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

PREMISE ADDRESS: 3635 - 3655 Vista Ave, 63110

RELATED ACCOUNT NUMBERS: 41121950-01, 90091536-01

TYPE OF OPERATION: Hospital & psychiatric care

TOTAL NUMBER OF SAMPLING POINTS: 5 or NO SAMPLING POINT ☐

NUMBER OF: ORDINANCE 5 CATEGORICAL ☐ COMBINED ☐

CATEGORICAL INDUSTRY? YES ☐ NO ☒

If Yes, 40 CFR ☐ Subpart ☐

PSES ☐ PSNS ☐

40 CFR ☐ Subpart ☐

PSES ☐ PSNS ☐

EXTRA STRENGTH SURCHARGE? YES ☐ NO ☒ If Yes, BOD ☐ COD ☐ TSS ☐

RETURN FACTOR? YES ☒ NO ☐ If Yes, Acct #(s) 208066, 208067 RF 0.68

SPECIAL CONDITIONS REQUIRED? YES ☒ NO ☐

All SMR start dates begin at start of calendar quarter: ☒ same as/containing permit effective date  
☐ following permit effective date

SMR General Cert. B attached to first permit SP (001) at reporting frequency of once/3mo? Y ☒ N ☐

SUPPORTING DOCUMENTS ATTACHED

	YES	NO	N/A
"Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Sheet:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pollutant & Limitations Documentation Sheets:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Permit Preparation Checklist:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Production-based Standards Calc. Sheets (for Sampling Points <input type="checkbox"/> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mass-based Standards Calc. Sheets (for Sampling Points <input type="checkbox"/> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Equivalent Concentration Limits Sheets (for Sampling Points <input type="checkbox"/> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Most Strict Limits Sheets (for Sampling Points <input type="checkbox"/> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Combined Wastestream Formula Sheets (for Sampling Points <input type="checkbox"/> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Text of any Customized Special Conditions: If Yes, for which SCs: <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other: <input type="checkbox"/>			

COMMENTS (Include notations of any significant changes from last permit):

New ownership, name change, new IUQ; all wastewater discharge volumes updated.

**SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS**

Special Condition:	# F.1	# E.18	# D.3	#	#	#	#	#
List any related SMR certifications:	#	#	#	#	#	#	#	#
SMR certification frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List any related General Reports:	#	# Rad.mat.discharge report	#	#	#	#	#	#
General Report frequency:	[none]	once 3 mo	[none]	[none]	[none]	[none]	[none]	[none]

Are all the SMR certifications listed above associated with first permit sample point (001)?      YES ☐ NO ☐ N/A (No Certs) ☒

Check here if there are no non-SP-specific Special Conditions: ☐

SAMPLING POINT REFERENCE NUMBER: 001

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: NCCW, Sanitary, Hosp waste, Kitchen waste, Boiler blowdown, Storm water

Flow Rate: 69,840 Units: GPD

Basis for Flow Rate: IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR __, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	n/a	once 3 mo	Standard	<input type="checkbox"/>
BOD	Standard	n/a	once 3 mo	Standard + volume	<input type="checkbox"/>
COD	Standard	n/a	once 3 mo	Standard + volume	<input type="checkbox"/>
O&G	Standard	12559	once 3 mo	Kitchen waste plus lab data presence	
pH	Standard	12559	once 3 mo	Standard + volume	
Temp	Standard	12559	once 3 mo	Standard + volume	
TSS	Standard	n/a	once 3 mo	Standard + volume	<input type="checkbox"/>
Ord. TTO	Standard	12559	once/year	Standard	
Total phenol	SP; added for hospitals	12559	once 3 mo	Typical for hospitals	<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
Silver (total)	Included for x-ray waste	12559	once 3 mo	Lab data shows presence	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition: # D.10 # # # # # # # #

List related SMR certs: # [none] # [none] # [none] # [none] # [none]

List related General Rpts: # [none] # [none] # [none] # [none] # [none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☐ NO ☒ Explain: Previous flowrate estimate was 98,651 GPD.

PERMIT NO: 1020548800-3

SAMPLING POINT REFERENCE NUMBER: 002

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Sanitary, Hosp waste, Storm water

Flow Rate: 28,170 Units: GPD Basis for Flow Rate: IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR __, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	n/a	once 3 mo	Standard	<input type="checkbox"/>
BOD	Standard	n/a	once 3 mo	Standard + volume	<input type="checkbox"/>
COD	Standard	n/a	once 3 mo	Standard + volume	<input type="checkbox"/>
O&G	Standard	12559	once 3 mo	Lab data presence	
pH	Standard	12559	once 3 mo	Standard + volume	
Temp	Standard	12559	once 3 mo	Standard + volume	
TSS	Standard	n/a	once 3 mo	Standard + volume	<input type="checkbox"/>
Ord. TTO	Standard	12559	once/year	Standard	
Total phenol	SP; added for hospitals	12559	once 3 mo	Typical for hospitals	<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
Silver (total)	Included for x-ray waste	12559	once 3 mo	Lab data shows presence	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition:

# D.10

#

#

#

#

#

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#

#

#

#

#

#

#

List related SMR certs:  
SMR cert frequency:

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

List related General Rpts:  
General Rpt frequency:

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☐ NO ☒ Explain: Previous flowrate estimate was 56,850 GPD.

**SAMPLING POINT REFERENCE NUMBER: 003**

Wastewater Components: Sanitary, Hosp waste, Storm water

Flow Rate: 3,434 Units: GPD

**Basis for Flow Rate: IUQ**

TYPE: Ord ☒ Cat ☐ Comb ☐[illegible]

**Special Condition:**

List related SMR certs:  
SMR cert frequency:

List related General Rpts:  
General Rpt frequency:

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐ NO ☒

Any significant changes? YES ☐ NO ☒ Explain: Previous flowrate estimate was 8,450 GPD.

SAMPLING POINT REFERENCE NUMBER: 004

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: NCCW, Storm water

Basis for Flow Rate: IUQ

Units: GPD

Flow Rate: 281

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR __, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	n/a	once 3 mo	Standard	
BOD	Standard	n/a	once/year	Infrequent, low volume	<input type="checkbox"/>
COD	Standard	n/a	once/year	Infrequent, low volume	<input type="checkbox"/>
O&G	Not included	n/a	[none]	Type of effluent	
pH	Standard	12559	once/year	Infrequent, low volume	
Temp	Standard	12559	once/year	Infrequent, low volume	
TSS	Standard	n/a	once/year	Infrequent, low volume	<input type="checkbox"/>
Ord. TTO	Excluded from sampling	n/a	[none]	Removed from monitoring	
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition:

# D.10

# D.1

# E.4

#

#

#

#

#

List related SMR certs:  
SMR cert frequency:

# [none]

# D  
Once/year

# A  
once 3 mo

# [none]

# [none]

# [none]

# [none]

# [none]

List related General Rpts:  
General Rpt frequency:

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

# [none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☐ NO ☒ Explain: Previous flowrate estimate was 400 GPD.





PERMIT PREPARATION CHECKLIST – PART 1  
(Fact Sheet Attachment)

Company Name: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

Permit No.: 1020548800-3

Effective Date: 9/1/2015

Prepared by: S. REHMER

Date: 8/18/2015

REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT APPLICATION.  
ANSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT.

1. Are the correct SICs listed? Yes ☒ No ☐  
If no, add \_\_\_\_\_ delete: \_\_\_\_\_
2. Is user in surcharge? Yes ☐ No ☒  
If yes, date last certified: \_\_\_\_\_  
If yes, Special Condition F.2 applies.
3. Does user's premise have more than one MSD account? Yes ☒ No ☐  
If yes, were all account numbers correctly listed (including occupant #s)? Yes ☒ No ☐  
If no, have account numbers been corrected in database before proceeding? Yes ☐ No ☐
4. Does user have a Return Factor (RF) other than 1.00 for any account? Yes ☒ No ☐  
If yes, list acct no., RF and date last updated:  
Acct 00208066 RF 0.68 Updated 4/2/2001  
Acct 00208067 RF 0.68 Updated 1/27/2003  
If yes, Special Condition F.1 applies.
5. Does user discharge water from a source not included in the MSD Billing system? Yes ☐ No ☒  
If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply.  
If yes, Is a flow meter used to record the volume discharged from this other source? Yes ☐ No ☐  
If yes, SC E.37 and Gen. Rpt. "Calibration of Discharge Flow Meter" apply.  
If no, SC E.38 applies.
6. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow? Yes ☒ No ☐  
If no, explain \_\_\_\_\_
7. Has user been granted any variances from ordinance limitations? Yes ☐ No ☒  
If yes, Application Date: \_\_\_\_\_  
Approval Date: \_\_\_\_\_, or approved as part of this permit issuance? Yes ☐  
(Variances cannot last more than 5 years after approval)  
If yes, Parameter(s) \_\_\_\_\_ at SP(s) \_\_\_\_\_  
If yes, Special Condition C.4 applies.
8. Have any numerical limitations been applied to user, in addition to those already contained in the ordinance? Yes ☐ No ☒  
If yes, Parameter(s) \_\_\_\_\_ at SP(s) \_\_\_\_\_  
Date limit(s) originally applied: \_\_\_\_\_, or as part of variance above? ☐  
If yes, are Special Conditions, other than the standard special conditions, required? Yes ☐ No ☐  
If yes, explain under "non-standard special conditions" question below.
9. Does user discharge any radioactive materials? Yes ☒ No ☐  
If yes, Special Condition E.18 & General Report "Radiation Discharge" apply.
10. Does user generate wastes and/or wastewater by genetic engineering research? Yes ☐ No ☒  
If yes, Special Condition B.12 applies.
11. Do all of the user's active connections, to MSD sewers, have identified SPs? Yes ☒ No ☐  
If no, explain: \_\_\_\_\_  
If no, is documentation sufficient to use Special Condition  
E.5 ☐ "Sampling Not Required at Connections with NO SP and with SP on parts",  
E.6 ☐ "Sampling Not Required at Connection with NO SP on it",  
E.7 ☐ "Sampling Not Required at Connection with SP on only part of it", or  
E.8 ☐ "Sampling Not Required at Permittee with No SP"?  
If no, is compliance schedule necessary to obtain documentation? Yes ☐ No ☐  
If yes, Special Condition G.1 is necessary.
12. Does premise require use of "upstream/downstream" sampling? Yes ☐ No ☒  
If yes, Upstream SP # \_\_\_\_\_ & Downstream SP # \_\_\_\_\_  
If yes, Special Conditions D.11 and E.9 apply.
13. Are there any inactive connections to MSD sewers? Yes ☐ No ☒  
If yes, Special Condition E.10 applies.
14. Have you verified, in PIMS, the SP location descriptions are complete and adequate? Yes ☒ No ☐
15. Have you verified, in PIMS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ☒ No ☐

16. Does user have any discharges subject to NPDES permitting regulations? Yes ☐ No ☒  
If yes, list MSD points & corresponding NPDES points: \_\_\_\_\_  
If yes, Special Condition E.14 applies.
17. Do any SPs convey stormwater in addition to regulated wastewater? Yes ☒ No ☐  
If yes, list points: 001, 002, 003, 004, 005 and note on P&LD sheets.  
If yes, Special Condition D.10 applies.
18. Are any SPs Dry Justified in PIMS? Yes ☐ No ☒  
If yes, list points \_\_\_\_\_ and note on P&LD sheets.  
If yes, no self-monitoring is required, and Special Condition E.3 applies.
19. Are there SPs where user discharges only non-process wastewater? Yes ☒ No ☐  
If yes, does no self-monitoring requirement / Special Condition E.3 apply? Yes ☐ No ☒  
If yes, list points \_\_\_\_\_ and note on P&LD sheets.
20. Are there SPs with infrequent discharges that require coordination with the user for MSD to collect samples? Yes ☐ No ☒  
If yes, list points: \_\_\_\_\_ and note on P&LD sheets.  
If yes, Special Condition D.14 applies.
21. Is documentation adequate to allow use of grab samples in lieu of composites at any SPs? Yes ☒ No ☐  
If yes, list points 004, 005 and note on P&LD sheets.  
If yes, Special Condition D.1 applies.
22. Are there SPs with self-monitoring requirements, but at less than a quarterly frequency, for all parameters? Yes ☒ No ☐  
If yes, list points 004 and note on P&LD sheets.  
If yes, Special Condition E.4 applies.
23. Can local limits TTO be removed from monitoring at any ordinance SPs? Yes ☒ No ☐  
If yes, list points 004 and explain on P&LD sheets.  
If yes, does TTO also need to be removed from MSD's monitoring? Yes ☐ No ☒  
If yes, discuss with inspector (name: \_\_\_\_\_) and explain why it had been monitored by MSD: \_\_\_\_\_
24. Does user have a history of compliance problems at this or a previous location? Yes ☐ No ☒  
If yes, explain problems: \_\_\_\_\_  
If yes, is a compliance schedule required? Yes ☐ No ☐  
If yes, Special Condition G.1 applies.  
Is supporting documentation attached? Yes ☐ No ☐  
If yes, are any other special requirements required? Yes ☐ No ☐  
Explain: \_\_\_\_\_
25. Is user required to monitor for Total Phenols at an ordinance SP? Yes ☒ No ☐  
If yes, does Special Condition D.3 for Total Phenols monitoring options apply? Yes ☒ No ☐
26. Has user chosen to employ continuous monitoring techniques for:  
pH? If yes, list points \_\_\_\_\_. SC E.29 & Gen Rpt "Cont-Mon pH Excursions" apply. Yes ☐ No ☒  
Temp? If yes, list points \_\_\_\_\_. SC E.30 & Gen Rpt "Cont-Mon Temp Excursions" apply. Yes ☐ No ☒  
LEL? If yes, list points \_\_\_\_\_. SC E.31 & Gen Rpt "Cont-Mon LEL Excursions" apply. Yes ☐ No ☒  
If yes for pH or Temp, have corresponding SP limits in PIMS been set to 'Alert Only' and does PIMS Monitoring Special Instructions have notes re. field 'violations'? Yes ☐ No ☐
27. Does the company perform any processes for which summaries of activities are needed? Yes ☐ No ☒  
If yes, Special Condition E.33 & General Report "Process Activity Summary" apply.
28. Are special billing conditions, other than the standard Special Conditions, needed? Yes ☐ No ☒  
If yes, describe: \_\_\_\_\_  
If yes, Special Condition F.4 applies.  
Does General Report "Discharge Volume for Billing" apply? Yes ☐ No ☐  
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
29. Are any Special Conditions, other than the standard special conditions, required? Yes ☐ No ☒  
If yes, explain: \_\_\_\_\_  
Which Special Condition applies? \_\_\_\_\_  
Is supporting documentation attached? Yes ☐ No ☐  
If no, explain: \_\_\_\_\_  
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
30. Is user a hauled waste industry, discharging its wastewater at the Hauled Waste Station? Yes ☐ No ☒  
If yes, have ☐ permit title, ☐ cover page, & ☐ general conditions been modified? Yes ☐ No ☐  
If yes, Special Conditions B.9, C.7, D.13, H.1, and H.2 apply.
31. Is user classified as a Categorical Industrial User (CIU)? Yes ☐ No ☒  
If yes, complete part 2 of checklist. If no, STOP here.

List all the Special Conditions from Part 1 that are applicable to this permit.  
List those that are specific to a sampling point on that sampling point's fact sheet, too.  
List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

General Report	Special Condition #	Sampling Point #
	F.1	n/a
Rad. Discharge	E.18	n/a
	D.10	001, 02, 03, 04, 05
	D.1	004, 005
	E.4	004
	D.3	n/a



**Metropolitan St. Louis  
Sewer District**

Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, MO 63147-2913  
Phone: 314.768.6200 www.stlmsd.com

December 1, 2011

Mike Jones, Chief Engineer  
**ST. LOUIS UNIVERSITY HOSPITAL**  
3635 Vista Avenue  
P.O. Box 15250  
St. Louis, MO 63110-0250

**Re: Discharge Permit No: 4112195100 - 2**  
**For premise at: 3635 & 3655 Vista Avenue, St. Louis, MO 63110**

Dear Mr. Jones:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Added Biochemical Oxygen Demand to the sampling list at Sample Point 004 as a standard pollutant required by all permittees
- Added special condition and special certification for grab sampling authorized at Sample Points 004 and 005 in lieu of composite sampling
- Added sampling and reporting requirement for sampling ordinance total phenols, required by all hospitals and health care facilities

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,  
**METROPOLITAN ST. LOUIS SEWER DISTRICT**

Scott M. Rehmer, Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit,  
Self-monitoring Report Form, Self-monitoring Report Instructions

cc: Doug Mendoza  
Mike Kynion

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PRIORITIES      PERFORMANCE      SERVICE

MSD 037216

METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195100 - 2

EFFECTIVE DATE: January 01, 2012  
EXPIRATION DATE: December 31, 2016

ISSUED TO: ST LOUIS UNIVERSITY HOSPITAL  
3635 & 3655 Vista Avenue  
St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5  
SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

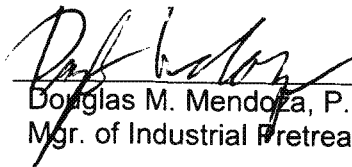
Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Scott M. Rehmer  
Assistant Engineer



Douglas M. Mendoza, P.E.  
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH in driveway W of loading dock at SW corner of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 98,651

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water (HVAC) + Sanitary + Hospital Waste (including x-ray waste) + Kitchen Waste + Boiler Blowdown + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION: MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 56,850

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste (including x-ray waste) + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.



DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 8,450

WASTEWATER SOURCE AND CATEGORY: Storm Water + Hospital Waste + Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: 6" t-vent inside W Pavilion parking garage 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 400

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: MH 93 ' S, 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 5,000

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- \* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- \*\* See Section I.A.2 of the permit conditions.
- \*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- \*\*\*\* See Section I.A.11 of the permit conditions.

## PERMIT CONDITIONS

### SECTION I - GENERAL CONDITIONS:

#### A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

<u>For the calendar quarter of:</u>	<u>The report must be postmarked no later than:</u>
January 1 through March 31	April 28
April 1 through June 30	July 28
July 1 through September 30	October 28
October 1 through December 31	January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by April 28, 2012. For non-quarterly self-monitoring requirements, the permit year commences on January 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

#### B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:
- Any discharge from a new process or facility or a new source.
  - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
  - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
  - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
  - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
  - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
  - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

#### C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

#### D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

#### E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

#### F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

#### G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District  
Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.



## SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

### A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

#### A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points 004 and 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

#### A.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005 may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

#### A.3. Sampling/Reporting Req for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

### B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

#### B.1. Certification Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

## B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
  - 5 curies Hydrogen-3
  - 1 curie Carbon-14
  - 1 curie for all other radioactive materials combined
- (2) For all other materials:
  - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

## C. SPECIAL BILLING REPORTING REQUIREMENTS

### C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on sixty-eight (68) percent of the used water (on an annual basis) being discharged to the District from both account numbers 00208066 and 00208067. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

**THIS IS THE LAST PAGE OF THIS PERMIT**



# INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

## PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	<b>NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED</b>
	<p>For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:</p> <p>_____ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.</p>
D	<b>GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE</b>
	<p>For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:</p> <p>_____ I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 &amp; 005.</p>

## PART IV: GENERAL CERTIFICATION STATEMENTS

B	<b>DISCHARGE MONITORING REPORT CERTIFICATION</b>
	<p><b>All permittees must sign and complete the information below:</b></p> <p>I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p> <p>Print or type name of signing official: _____</p> <p>Title: _____ Telephone: _____</p> <p>Signature: _____ Date: _____</p>



**Metropolitan St. Louis  
Sewer District**

Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, MO 63147-2913  
Phone: 314.768.6200 www.stlmsd.com

December 1, 2011

Mike Jones, Chief Engineer  
**ST LOUIS UNIVERSITY HOSPITAL**  
3635 Vista Avenue  
P.O. Box 15250  
St. Louis, MO 63110-0250

**Re: Discharge Permit No: 4112195100 - 2**  
**For premise at: 3635 & 3655 Vista Avenue, St. Louis, MO 63110**

Dear Mr. Jones:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Added Biochemical Oxygen Demand to the sampling list at Sample Point 004 as a standard pollutant required by all permittees
- Added special condition and special certification for grab sampling authorized at Sample Points 004 and 005 in lieu of composite sampling
- Added sampling and reporting requirement for sampling ordinance total phenols, required by all hospitals and health care facilities

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,  
**METROPOLITAN ST. LOUIS SEWER DISTRICT**

Scott M. Rehmer, Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit,  
Self-monitoring Report Form, Self-monitoring Report Instructions

cc: Doug Mendoza  
Mike Kynion

PRIORITIES      PERFORMANCE      SERVICE

MSD 037232

METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112193600 - 3

EFFECTIVE DATE: February 01, 2012  
EXPIRATION DATE: January 31, 2017

ISSUED TO: ST LOUIS UNIVERSITY HEALTH SCIENCES CENTER  
1402 S. Grand Blvd.  
St. Louis, MO 63104

SIC NUMBER(S): 8011, 8221, 8733

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 3  
SAMPLING PT. REF NUMBER(S): 001, 002, 003

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

\_\_\_\_\_  
Scott M. Rehmer  
Assistant Engineer

\_\_\_\_\_  
Douglas M. Mendoza, P.E.  
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH 99' N, 9' E of SE Corner at Vista - total flow

AVERAGE WASTEWATER FLOW (GPD): 57,560

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non Contact Cooling Water + Process Waste (Research labs & animal care) + Plant & Equipment Washdown

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\*

Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\*

See Section I.A.2 of the permit conditions.

\*\*\*

Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\*

See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION:

Flow from 6" pipe from SW & pipe from S in MH 6' N, 30' W of NE corner of Building 3525

AVERAGE WASTEWATER FLOW (GPD): 700

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/6 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/6 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/6 mo
Temperature [Deg C]	60	Instant	Once/6 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/6 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/6 mo
pH [SU]	5.5	Instant	Once/6 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.



DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: Manhole in sidewalk on Carr Lane, 28' N of service drive, 48 E of building at 1100 S Grand

AVERAGE WASTEWATER FLOW (GPD): 32,374

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non Contact Cooling Water + Process Waste(Bio-medical research & animal care) + Boiler Blowdown + Regeneration/Reject Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Cadmium (Total) [mg/L]	0.7	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Chromium (Total) [mg/L]	5.0	Daily Avg	Once/3 mo
Copper (Total) [mg/L]	2.7	Daily Avg	Once/3 mo
Cyanide (Amenable to Chlorination) [mg/L]	1.2	Instant	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Lead (Total) [mg/L]	0.4	Daily Avg	Once/3 mo
Mercury (Total) [mg/L]	0.01	Daily Avg	Once/3 mo
Nickel (Total) [mg/L]	2.3	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
Zinc (Total) [mg/L]	3.0	Daily Avg	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## PERMIT CONDITIONS

### SECTION I - GENERAL CONDITIONS:

#### A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the **INSTANT** limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the **INSTANT** limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, shall be made on-site at the points of discharge and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

- a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.
- b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:  
January 1 through March 31  
April 1 through June 30  
July 1 through September 30  
October 1 through December 31

The report must be postmarked no later than:  
April 28  
July 28  
October 28  
January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by July 28, 2012. For non-quarterly self-monitoring requirements, the permit year commences on April 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

#### B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:

- a. Any discharge from a new process or facility or a new source.
- b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
- e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
- g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

#### C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

#### D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

#### E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

#### F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

#### G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District  
Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

## SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

### A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

#### A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling point 002, using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

#### A.2. Sampling/Reporting Requirement for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

#### A.3. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, and 003, may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

### B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

#### B.1. Certification Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 002, permittee is required to sample the discharge only once per six (6) months. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 002 since the last report.

## B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
  - 5 curies Hydrogen-3
  - 1 curie Carbon-14
  - 1 curie for all other radioactive materials combined
- (2) For all other materials:
  - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

## C. SPECIAL BILLING REPORTING REQUIREMENTS

### C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on eighty-five (85) percent from account number 00208062, and sixty-eight (68) percent from account number 00464430, of the used water (on an annual basis) being discharged to the District. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

**THIS IS THE LAST PAGE OF THIS PERMIT**



# METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

## PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HEALTH SCIENCES CENTER**

Effective Date: 02/01/2012

Expiration Date: 01/31/2017

**Premise Address:** 1402 S. Grand Blvd, 63104

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☐ (JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: \_\_\_\_\_

Analyses Performed By: \_\_\_\_\_

**PART II: ANALYTICAL RESULTS OF SELF MONITORING**

[illegible]

You must complete and sign the certification statements on the second page.

# INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

## PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	<b>NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED</b>
	<p>For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you <b>are required</b> to make the following certification for each report in which monitoring is waived:</p> <p>_____ I certify, since the last discharge monitoring report, there has been no change in the <b>character</b> of the <b>wastes</b> discharged at sample point 002.</p>
D	<b>GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE</b>
	<p>For permit special conditions that authorize grab sample collection in lieu of <b>composite</b> sampling at any sample point(s), you are <b>required</b> to make the following certification for each report in which such authorized <b>grab samples</b> occur:</p> <p>_____ I certify the grab sample results in this report accurately represent our average daily <b>discharge</b> at sample point 002.</p>

## PART IV: GENERAL CERTIFICATION STATEMENTS

B	<b>DISCHARGE MONITORING REPORT CERTIFICATION</b>
	<p><b>All permittees must sign and complete the information below:</b></p> <p>I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly <b>gather</b> and <b>evaluate</b> the <b>information</b> submitted. Based on my inquiry of the person or persons who manage the system, or those persons <b>directly</b> responsible for <b>gathering</b> the <b>information</b>, the information submitted is, to the best of my knowledge and belief, <b>true</b>, <b>accurate</b>, and <b>complete</b>. I <b>am</b> aware that there <b>are</b> significant penalties for submitting false information, including the possibility of <b>fine</b> and <b>imprisonment</b> for <b>knowing</b> violations.</p> <p>Print or type name of signing official: _____</p> <p>Title: _____ Telephone: _____</p> <p>Signature: _____ Date: _____</p>



**Metropolitan St. Louis  
Sewer District**

Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, MO 63147-2913  
Phone: 314.768.6200 www.stlmsd.com

November 9, 2011

Mike Jones, Chief Engineer  
**ST. LOUIS UNIVERSITY HOSPITAL**  
3635 Vista Avenue  
P.O. Box 15250  
St. Louis, MO 63110

**Re: Discharge Permit No: 4112195100 - 2**  
**For premise at: 3635 & 3655 Vista Avenue, 63110**

Dear Mr. Jones:

The Metropolitan St. Louis Sewer District has completed its review of your application for renewal of the Industrial Wastewater Discharge Permit for the above premise. The current permit becomes effective on January 1, 2012, and expires on December 31, 2016.

Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the draft permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Added Biochemical Oxygen Demand to the sampling list at Sample Point 004 as a standard pollutant required by all permittees
- Added special condition and special certification for grab sampling authorized at Sample Points 004 and 005 in lieu of composite sampling
- Added sampling and reporting requirement for sampling ordinance total phenols, required by all hospitals and health care facilities

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the draft permit, and we will proceed to issue the final permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,  
**METROPOLITAN ST. LOUIS SEWER DISTRICT**

Scott M. Rehmer, Assistant Engineer

Enclosures: Draft Industrial Wastewater Discharge Permit

cc: Doug Mendoza  
Mike Kynion

PRIORITIES PERFORMANCE SERVICE

MSD 037246

METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195100 - 2

EFFECTIVE DATE: January 01, 2012  
EXPIRATION DATE: December 31, 2016

ISSUED TO: ST LOUIS UNIVERSITY HOSPITAL  
3635 & 3655 Vista Avenue  
St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5  
SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

\_\_\_\_\_  
Scott M. Rehmer  
Assistant Engineer

\_\_\_\_\_  
Douglas M. Mendoza, P.E.  
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH in driveway W of loading dock at SW corner of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 98,651

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water (HVAC) + Sanitary + Hospital Waste (including x-ray waste) + Kitchen Waste + Boiler Blowdown + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- \*
Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\*
See Section I.A.2 of the permit conditions.

\*\*\*
Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\*
See Section I.A.11 of the permit conditions.

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION: MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 56,850

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste (including x-ray waste) + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 8,450

WASTEWATER SOURCE AND CATEGORY: Storm Water + Hospital Waste + Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: 6" t-vent inside W Pavilion parking garage 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 400

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

- \*

Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\*

See Section I.A.2 of the permit conditions.

\*\*\*

Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\*

See Section I.A.11 of the permit conditions.



DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: MH 93 ' S, 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 5,000

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, shall be made on-site at the points of discharge and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- All facility and sample description information required on the District's reporting form.
- Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- Daily flows, with dates, for all measurements or estimates made within the quarter.
- Any certification statements required pursuant to the Special Conditions in Section II.
- Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by April 28, 2012. For non-quarterly self-monitoring requirements, the permit year commences on January 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

#### B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:
- Any discharge from a new process or facility or a new source.
  - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
  - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
  - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
  - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
  - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
  - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

#### C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

#### D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

#### E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

#### F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

#### G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District  
Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

## SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

### A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

#### A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points 004 and 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

#### A.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005 may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

#### A.3. Sampling/Reporting Req for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. **Note:** The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

### B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

#### B.1. Certification Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.



**B.2. Radioactive Discharge Reporting Requirements**

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:  
5 curies Hydrogen-3  
1 curie Carbon-14  
1 curie for all other radioactive materials combined
- (2) For all other materials:  
1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

**C. SPECIAL BILLING REPORTING REQUIREMENTS**

**C.1. Reporting Changes Which Might Impact Return Factor**

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on sixty-eight (68) percent of the used water (on an annual basis) being discharged to the District from both account numbers 00208066 and 00208067. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

**THIS IS THE LAST PAGE OF THIS PERMIT**



# METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

## PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2

Effective Date: 01/01/2012

Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐ (JAN-MAR)

□(APR-JUNE)

☐ (JULY-SEPT)

☐ (OCT-DEC)

**Samples Collected By:**

### Analyses Performed By:

**PART II: ANALYTICAL RESULTS OF SELF MONITORING**

[illegible]

You must complete and sign the certification statements on the second page.

# INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

## PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.  
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	<b>NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED</b>
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	_____ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	<b>GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE</b>
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	_____ I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

## PART IV: GENERAL CERTIFICATION STATEMENTS

B	<b>DISCHARGE MONITORING REPORT CERTIFICATION</b>
	<b>All permittees must sign and complete the information below:</b>
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: _____
	Title: _____ Telephone: _____
	Signature: _____ Date: _____

METROPOLITAN ST. LOUIS SEWER DISTRICT  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:

FIRST TIME PERMIT ☐  
RENEWAL ☒

Prepared by: S. Rehmer

Date: 10/26/2011

Reviewed by: D. Mendoza

Date: 11-9-11

PERMIT NO: 4112195100-2

EFFECTIVE DATE: 1/1/2012

EXPIRATION DATE: 12/31/2016

COMPANY NAME: ST LOUIS UNIVERSITY HOSPITAL

PREMISE ADDRESS: 3635 - 3655 Vista Ave, 63110

RELATED ACCOUNT NUMBERS: 41121950-01, 90091536-01

SIC NUMBERS: 8062, 8063

TYPE OF OPERATION: Hospital & psychiatric care

TOTAL NUMBER OF SAMPLING POINTS: 5 or NO SAMPLING POINT ☐

NUMBER OF: ORDINANCE 5 CATEGORICAL ☐ COMBINED ☐

CATEGORICAL INDUSTRY? YES ☐ NO ☒

If Yes, 40 CFR ☐ Subpart ☐

PSES ☐ PSNS ☐

40 CFR ☐ Subpart ☐

PSES ☐ PSNS ☐

EXTRA STRENGTH SURCHARGE? YES ☐ NO ☒ If Yes, BOD ☐ COD ☐ TSS ☐

RETURN FACTOR? YES ☒ NO ☐ If Yes, Acct #(s) 208066, 208067 RF 0.68

SPECIAL CONDITIONS REQUIRED? YES ☒ NO ☐

All SMR start dates begin at start of calendar quarter: ☒ same as/containing permit effective date  
☐ following permit effective date

SMR General Cert. B attached to first permit SP (001) at reporting frequency of once/3mo? Y ☒ N ☐

SUPPORTING DOCUMENTS ATTACHED

	YES	NO	N/A
Pollutant & Limitations Documentation Sheets:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Permit Preparation Checklist:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
"Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Sheet:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Production-based Standards Calc. Sheets (for Sampling Points <input type="checkbox"/> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mass-based Standards Calc. Sheets (for Sampling Points <input type="checkbox"/> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Most Strict Limits Sheets (for Sampling Points <input type="checkbox"/> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Combined Wastestream Formula Sheets (for Sampling Points <input type="checkbox"/> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other: <input type="checkbox"/>			

COMMENTS (Include notations of any significant changes from last permit):

Added BOD to SP004; added grab sample authorized to SP004 + 005;  
added total phenols to SP001, 002, 003, 005

SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS

Special Condition:	# <u>F.1</u>	# <u>E.18</u>	# <u>D.3</u>	# _____	# _____	# _____	# _____	# _____
List any related SMR certifications:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
SMR certification frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List any related General Reports:	# _____	# <u>Rad.discharge report</u>	# _____	# _____	# _____	# _____	# _____	# _____
General Report frequency:	[none]	<u>once 3 mo</u>	[none]	[none]	[none]	[none]	[none]	[none]

YES ☐ NO ☐ N/A (No Certs) ☒

Are all the SMR certifications listed above associated with first permit sample point (001)?

Check here if there are no non-SP-specific Special Conditions: ☐





**SAMPLING POINT REFERENCE NUMBER: 003**

TYPE: Ord ☒ Cat ☐ Comb ☐

**Wastewater Components:** Sanitary, Hosp waste, Storm water

Flow Rate: 8,450 Units: GPD Basis for Flow Rate: IUQ

[illegible]

**Special Condition:**

List related SMR certs:  
SMR cert frequency:

List related General Rpts:  
General Rpt frequency:

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☐ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐ NO ☐

Any significant changes? YES ☐ NO ☐ Explain: Added D.3 total phenols

**SAMPLING POINT REFERENCE NUMBER: 004**

Wastewater Components: NCCW, Storm water

Flow Rate: 400 Units: GPD

**Basis for Flow Rate: IUQ**

TYPE: Ord ☒ Cat ☐ Comb ☐[illegible]

**Special Condition:**

List related SMR certs:  
SMR cert frequency:

List related General Rpts:  
General Rpt frequency:

Consistent frequency?                      If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐ NO ☒

Any significant changes? YES ☒ NO ☐ Explain: Added D.1 grabs



**SAMPLING POINT REFERENCE NUMBER: 005**

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Sanitary, Hosp waste, Storm water

Flow Rate: 5,000	Units: GPD	Basis for Flow Rate: IUQ
Flow Rate: 5,000	Units: GPD	Basis for Flow Rate: IUQ

[illegible]

**Special Condition:**

# <u>D.10</u>	# <u>D.1</u>
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#

\_\_\_\_\_

**List related SMR certs:**

# D once 3 mo

#

7

**Abstract**

[illegible]

List related General Rpts:

# [none]

#

1

1

25

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐ NO ☐

Any significant changes? YES ☒ NO ☐ Explain: Added D.3 total phenols; Added D.1 grabs

PERMIT PREPARATION CHECKLIST - PART 1  
(Fact Sheet Attachment)

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Permit No.: 4112195100-2

Effective Date: 1/1/2012

Prepared by: S. Rehmer

Date: 10/26/2011

REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT APPLICATION.  
ANSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT.

1. Are the correct SICs listed? Yes ☒ No ☐  
If no, add \_\_\_\_\_ delete: \_\_\_\_\_
2. Is user in surcharge? Yes ☐ No ☒  
If yes, date last certified: \_\_\_\_\_  
If yes, Special Condition F.2 applies.
3. Does user's premise have more than one MSD account? Yes ☒ No ☐  
If yes, were all account numbers correctly listed (including occupant #s)? Yes ☒ No ☐  
If no, have account numbers been corrected in database before proceeding? Yes ☐ No ☐
4. Does user have a Return Factor (RF) other than 1.00 for any account? Yes ☒ No ☐  
If yes, list acct no., RF and date last updated:  
Acct 00208066 RF 0.68 Updated 4/2/2001  
Acct 00208067 RF 0.68 Updated 1/27/2003  
If yes, Special Condition F.1 applies.
5. Does user discharge water from a source not included in the MSD Billing system? Yes ☐ No ☒  
If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply.
6. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow? Yes ☒ No ☐  
If no, explain \_\_\_\_\_
7. Has user been granted any variances from ordinance limitations? Yes ☐ No ☒  
If yes, Application Date: \_\_\_\_\_  
Approval Date: \_\_\_\_\_, or approved as part of permit issuance? Yes ☐  
If yes, Parameter(s) \_\_\_\_\_ at SP(s) \_\_\_\_\_  
If yes, Special Condition C.4 applies.
8. Does user discharge any radioactive materials? Yes ☒ No ☐  
If yes, Special Condition E.18 & General Report "Radiation Discharge" apply.
9. Do all of the user's active connections, to MSD sewers, have identified SPs? Yes ☒ No ☐  
If no, explain: \_\_\_\_\_  
If no, is documentation sufficient to use Special Condition  
E.5 ☐ "Sampling Not Required at Connections with NO SP and with SP on parts",  
E.6 ☐ "Sampling Not Required at Connection with NO SP on it",  
E.7 ☐ "Sampling Not Required at Connection with SP on only part of it", or  
E.8 ☐ "Sampling Not Required at Permittee with No SP"?  
If no, is compliance schedule necessary to obtain documentation? Yes ☐ No ☐  
If yes, Special Condition G.1 is necessary.
10. Does premise require use of "upstream/downstream" sampling? Yes ☐ No ☒  
If yes, Upstream SP # \_\_\_\_\_ & Downstream SP # \_\_\_\_\_  
If yes, Special Conditions D.11 and E.9 apply.
11. Are there any inactive connections to MSD sewers? Yes ☐ No ☒  
If yes, Special Condition E.10 applies.
12. Have you verified, in PIMS, the SP location descriptions are complete and adequate? Yes ☒ No ☐
13. Have you verified, in PIMS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ☒ No ☐
14. Does user have any discharges subject to NPDES permitting regulations? Yes ☐ No ☒  
If yes, list MSD points & corresponding NPDES points: \_\_\_\_\_  
If yes, Special Condition E.14 applies.
15. Do any SPs convey stormwater in addition to regulated wastewater? Yes ☒ No ☐  
If yes, list points: 001,002,003,004,005 and note on P&LD sheets.  
If yes, Special Condition D.10 applies.
16. Are any SPs Dry Justified in PIMS? Yes ☐ No ☒  
If yes, list points \_\_\_\_\_ and note on P&LD sheets.  
If yes, no self-monitoring is required, and Special Condition E.3 applies.

17. Are there SPs where user discharges only non-process wastewater? Yes ☒ No ☐  
If yes, does no self-monitoring requirement / Special Condition E.3 apply? Yes ☐ No ☒  
If yes, list points \_\_\_\_\_ and note on P&LD sheets.
18. Are there SPs with infrequent discharges that require coordination with the user for MSD to collect samples? Yes ☐ No ☒  
If yes, list points: \_\_\_\_\_ and note on P&LD sheets.  
If yes, Special Condition D.14 applies.
19. Is documentation adequate to allow use of grab samples in lieu of composites at any SPs? Yes ☒ No ☐  
If yes, list points 004,005 and note on P&LD sheets.  
If yes, Special Condition D.1 applies.
20. Are there SPs with self-monitoring requirements, but at less than a quarterly frequency, for all parameters? Yes ☒ No ☐  
If yes, list points 004 and note on P&LD sheets.  
If yes, Special Condition E.4 applies.
21. Can local limits TTO be removed from monitoring at any ordinance SPs? Yes ☒ No ☐  
If yes, list points 004 and explain on P&LD sheets.  
If yes, does TTO also need to be removed from MSD's monitoring? Yes ☐ No ☒  
If yes, discuss with inspector (name: \_\_\_\_\_) and explain why it had been monitored by MSD: \_\_\_\_\_
22. Does user have a history of compliance problems at this or a previous location? Yes ☐ No ☒  
If yes, explain problems: \_\_\_\_\_  
If yes, is a compliance schedule required? Yes ☐ No ☐  
If yes, Special Condition G.1 applies.  
Is supporting documentation attached? Yes ☐ No ☐  
If yes, are any other special requirements required? Yes ☐ No ☐  
Explain: \_\_\_\_\_
23. Is user required to monitor for Total Phenols at an ordinance SP? Yes ☒ No ☐  
If yes, does Special Condition D.3 for Total Phenols monitoring options apply? Yes ☒ No ☐
24. Has user chosen to employ continuous monitoring techniques for:  
pH? If yes, list points \_\_\_\_\_. SC E.29 & Gen Rpt "Cont-Mon pH Excursions" apply. Yes ☐ No ☒  
Temp? If yes, list points \_\_\_\_\_. SC E.30 & Gen Rpt "Cont-Mon Temp Excursions" apply. Yes ☐ No ☒  
LEL? If yes, list points \_\_\_\_\_. SC E.31 & Gen Rpt "Cont-Mon LEL Excursions" apply. Yes ☐ No ☒
25. Does the company perform any processes for which summaries of activities are needed? Yes ☐ No ☒  
If yes, Special Condition E.33 & General Report "Process Activity Summary" apply.
26. Are special billing conditions, other than the standard Special Conditions, needed? Yes ☐ No ☒  
If yes, describe: \_\_\_\_\_  
If yes, Special Condition F.4 applies.  
Does General Report "Discharge Volume for Billing" apply? Yes ☐ No ☐  
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
27. Are any Special Conditions, other than the standard special conditions, required? Yes ☐ No ☒  
If yes, explain: \_\_\_\_\_  
Which Special Condition applies? \_\_\_\_\_  
Is supporting documentation attached? Yes ☐ No ☐  
If no, explain: \_\_\_\_\_  
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
28. Is user a hauled waste industry, discharging its wastewater at the Hauled Waste Station? Yes ☐ No ☒  
If yes, have permit title, cover page language, & general conditions been modified? Yes ☐ No ☐  
If yes, Special Conditions B.9, D.13, H.1, and H.2 apply.
29. Is user classified as a Categorical Industrial User (CIU)? Yes ☐ No ☒  
If yes, complete part 2 of checklist. If no, STOP here.

List all the Special Conditions from Part 1 that are applicable to this permit.  
List those that are specific to a sampling point on that sampling point's fact sheet, too.  
List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

General Report	Special Condition #	Sampling Point #
_____	_____	N/A
Rad.Discharge	F.1	N/A
_____	E.18	_____
_____	D.10	001,002,003,004,005
_____	D.1	004,005
_____	E.4	004
_____	D.3	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

METROPOLITAN ST. LOUIS SEWER DISTRICT  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:

FIRST TIME PERMIT ☐

RENEWAL ☒

Prepared by: S. Rehmer

Date: 11/8/2011

Reviewed by: D. Mendoza

Date: 11-10-11

PERMIT NO: 4112193600-3

EFFECTIVE DATE: 2/1/2012

EXPIRATION DATE: 1/31/2017

COMPANY NAME: ST LOUIS UNIVERSITY HEALTH SCIENCES CENTER

PREMISE ADDRESS: 1402 S. Grand Blvd, 63104

RELATED ACCT NUMBERS: 4112481000 (209617); 1020547300 (208052); 9011272301 (464430)

SIC NUMBERS: 8011, 8221, 8733

TYPE OF OPERATION: Institution for health sciences training

TOTAL NUMBER OF SAMPLING POINTS: 3 or NO SAMPLING POINT ☐

NUMBER OF: ORDINANCE 3 CATEGORICAL        COMBINED       

CATEGORICAL INDUSTRY? YES ☐ NO ☒

If Yes, 40 CFR        Subpart       

PSES ☐ PSNS ☐

40 CFR        Subpart       

PSES ☐ PSNS ☐

EXTRA STRENGTH SURCHARGE? YES ☐ NO ☒ If Yes, BOD        COD        TSS       

RETURN FACTOR? YES ☒ NO ☐ If Yes, Acct #(s) 208062; 464430 RF 0.85; 0.68

SPECIAL CONDITIONS REQUIRED? YES ☒ NO ☐

All SMR start dates begin at start of calendar quarter: ☐ same as/containing permit effective date  
☒ following permit effective date

SMR General Cert. B attached to first permit SP (001) at reporting frequency of once/3mo? Y ☒ N ☐

SUPPORTING DOCUMENTS ATTACHED

	YES	NO	N/A
Pollutant & Limitations Documentation Sheets:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Permit Preparation Checklist:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
"Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Sheet:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Production-based Standards Calc. Sheets (for Sampling Points <u>      </u> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mass-based Standards Calc. Sheets (for Sampling Points <u>      </u> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Most Strict Limits Sheets (for Sampling Points <u>      </u> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Combined Wastestream Formula Sheets (for Sampling Points <u>      </u> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other: <u>      </u>			

COMMENTS (Include notations of any significant changes from last permit):

Added total phenol sampling at SP001 & 003; added grab-auth sampling at SP002.

**SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS**

Special Condition:	# <u>F.1</u>	# <u>E.18</u>	# <u>D.3</u>	# _____	# _____	# _____	# _____	# _____
List any related SMR certifications:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
SMR certification frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List any related General Reports:	# _____	# <u>Rad. Discharge</u>	# _____	# _____	# _____	# _____	# _____	# _____
General Report frequency:	[none]	once 3 mo	[none]	[none]	[none]	[none]	[none]	[none]

YES ☐ NO ☐ N/A (No Certs) ☒

Are all the SMR certifications listed above associated with first permit sample point (001)?

☐

Check here if there are no non-SP-specific Special Conditions:

**SAMPLING POINT REFERENCE NUMBER: 001**

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Sanitary, NCCW, Process WW, P&E Wash, Storm

Flow Rate: 57,560 Units: GPD

[illegible]

**Special Condition:**

List related SMR certs:  
SMR cert frequency:

List related General Rpts:  
General Rpt frequency:

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐ NO ☐

Any significant changes? YES ☒ NO ☐ Explain: Added total phenol sampling.

**SAMPLING POINT REFERENCE NUMBER: 002**

**Wastewater Components: Sanitary, Storm**

### Basis for Flow Rate: IUQ

Units: GPD

Pollutants	Basis for inclusion (or exclusion of std polls)
------------	--

### Basis for limitation

## Monitoring frequency

**Basis for monitoring freq.**  
(std for vol, etc; innocuous, low flow, etc)

	Units: GPD		Basis for Flow Rate: 100	
	Basis for inclusion	Basis for limitation	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)
Pollutants				
Flow Rate: 700				
Wastewater Comp.				

[illegible]

**Special Condition:**

**#D.10**

### #D.1

### E.4

# 1

#

# —

---

7

doi:10.1017/S0022292412001796

List related SMR certs:  
SMR cert frequency:

#

#D

#A

#

# \_\_\_\_\_

# [none]

[none]

[none]

List related General Rpts:  
General Rpt frequency:

#

1

1

#

#

# \_\_\_\_\_ [none]

# [none]

[none]

General Rpt frequency. | none | none | none |

this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☒ NO ☐ Explain: Added D.1 (grab-auth) option.

SAMPLING POINT REFERENCE NUMBER: 003

Wastewater Components: Sanitary, NCCW, Process WW, Boiler BD, Regen/Reject, Storm  
Flow Rate: 32,374 Units: GPD Basis for Flow Rate: IUQ

TYPE: Ord ☒ Cat ☐ Comb ☐

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR __, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	n/a	once 3 mo	Standard	
BOD	Standard	n/a	once 3 mo	Standard + volume	<input type="checkbox"/>
COD	Standard	n/a	once 3 mo	Standard + volume	<input type="checkbox"/>
O&G	Standard	12559	once 3 mo	Standard + volume + data results	
pH	Standard	12559	once 3 mo	Standard + volume	
Temp	Standard	12559	once 3 mo	Standard + volume	
TSS	Standard	n/a	once 3 mo	Standard + volume	
Ord. TTO	Standard	12559	once/year	Standard	<input type="checkbox"/>
Total Phenol	KP + some data presence	12559	once 3 mo	KP + data presence	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
Silver (total)	KP, X-ray waste	12559	once 3 mo	KP + some lab data presence	<input type="checkbox"/>
Cadmium	Included, KP	12559	once 3 mo	KP, trace loss to sewer	
Chromium	Included, KP	12559	once 3 mo	KP, trace loss to sewer	
Copper	Included, KP	12559	once 3 mo	KP, trace loss to sewer	<input type="checkbox"/>
Lead	Included, KP	12559	once 3 mo	KP, trace loss to sewer	<input type="checkbox"/>
Mercury	Included, KP	12559	once 3 mo	KP, trace loss to sewer	<input type="checkbox"/>
Nickel	Included, KP	12559	once 3 mo	KP, trace loss to sewer	<input type="checkbox"/>
Zinc	Included, KP	12559	once 3 mo	KP, trace loss to sewer	<input type="checkbox"/>
Cyanide (a)	Included, KP	12559	once 3 mo	KP, trace loss to sewer	<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition:	# D.10	#	#	#	#	#	#	#	#
List related SMR certs:	#	#	#	#	#	#	#	#	#
SMR cert frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List related General Rpts:	#	#	#	#	#	#	#	#	#
General Rpt frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☒ NO ☐ Explain: Added total phenol sampling.



PERMIT PREPARATION CHECKLIST - PART 1  
(Fact Sheet Attachment)

Company Name: ST LOUIS UNIVERSITY HEALTH SCIENCES CENTER

Permit No.: 4112193600-3

Effective Date: 2/1/2012

Prepared by: S. REHMER

Date: 11/8/2011

REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT APPLICATION.  
ANSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT.

1. Are the correct SICs listed? Yes ☒ No ☐  
If no, add \_\_\_\_\_ delete: \_\_\_\_\_
2. Is user in surcharge? Yes ☐ No ☒  
If yes, date last certified: \_\_\_\_\_  
If yes, Special Condition F.2 applies.
3. Does user's premise have more than one MSD account? Yes ☒ No ☐  
If yes, were all account numbers correctly listed (including occupant #s)? Yes ☒ No ☐  
If no, have account numbers been corrected in database before proceeding? Yes ☐ No ☐
4. Does user have a Return Factor (RF) other than 1.00 for any account? Yes ☒ No ☐  
If yes, list acct no., RF and date last updated:  
Acct 00208062 RF 0.85 Updated 10/3/2003  
Acct 00464430 RF 0.68 Updated 7/10/2009  
If yes, Special Condition F.1 applies.
5. Does user discharge water from a source not included in the MSD Billing system? Yes ☐ No ☒  
If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply.
6. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow? Yes ☒ No ☐  
If no, explain \_\_\_\_\_
7. Has user been granted any variances from ordinance limitations? Yes ☐ No ☒  
If yes, Application Date: \_\_\_\_\_ Approval Date: \_\_\_\_\_, or approved as part of permit issuance? Yes ☐  
If yes, Parameter(s) \_\_\_\_\_ at SP(s) \_\_\_\_\_  
If yes, Special Condition C.4 applies.
8. Does user discharge any radioactive materials? Yes ☒ No ☐  
If yes, Special Condition E.18 & General Report "Radiation Discharge" apply.
9. Do all of the user's active connections, to MSD sewers, have identified SPs? Yes ☒ No ☐  
If no, explain: \_\_\_\_\_  
If no, is documentation sufficient to use Special Condition  
E.5 ☐ "Sampling Not Required at Connections with NO SP and with SP on parts",  
E.6 ☐ "Sampling Not Required at Connection with NO SP on it",  
E.7 ☐ "Sampling Not Required at Connection with SP on only part of it", or  
E.8 ☐ "Sampling Not Required at Permittee with No SP"?  
If no, is compliance schedule necessary to obtain documentation? Yes ☐ No ☐  
If yes, Special Condition G.1 is necessary.
10. Does premise require use of "upstream/downstream" sampling? Yes ☐ No ☒  
If yes, Upstream SP # \_\_\_\_\_ & Downstream SP # \_\_\_\_\_  
If yes, Special Conditions D.11 and E.9 apply.
11. Are there any inactive connections to MSD sewers? Yes ☐ No ☒  
If yes, Special Condition E.10 applies.
12. Have you verified, in PIMS, the SP location descriptions are complete and adequate? Yes ☒ No ☐
13. Have you verified, in PIMS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ☒ No ☐
14. Does user have any discharges subject to NPDES permitting regulations? Yes ☒ No ☐  
If yes, list MSD points & corresponding NPDES points: \_\_\_\_\_  
If yes, Special Condition E.14 applies.
15. Do any SPs convey stormwater in addition to regulated wastewater? Yes ☒ No ☐  
If yes, list points: 001, 002, 003 and note on P&LD sheets.  
If yes, Special Condition D.10 applies.
16. Are any SPs Dry Justified in PIMS? Yes ☐ No ☒  
If yes, list points \_\_\_\_\_ and note on P&LD sheets.  
If yes, no self-monitoring is required, and Special Condition E.3 applies.

17. Are there SPs where user discharges only non-process wastewater? Yes ☒ No ☐  
If yes, does no self-monitoring requirement / Special Condition E.3 apply? Yes ☐ No ☒  
If yes, list points \_\_\_\_\_ and note on P&LD sheets.
18. Are there SPs with infrequent discharges that require coordination with the user for MSD to collect samples? Yes ☐ No ☒  
If yes, list points: \_\_\_\_\_ and note on P&LD sheets.  
If yes, Special Condition D.14 applies.
19. Is documentation adequate to allow use of grab samples in lieu of composites at any SPs? Yes ☒ No ☐  
If yes, list points 002 and note on P&LD sheets.  
If yes, Special Condition D.1 applies.
20. Are there SPs with self-monitoring requirements, but at less than a quarterly frequency, for all parameters? Yes ☒ No ☐  
If yes, list points 002 and note on P&LD sheets.  
If yes, Special Condition E.4 applies.
21. Can local limits TTO be removed from monitoring at any ordinance SPs? Yes ☐ No ☒  
If yes, list points \_\_\_\_\_ and explain on P&LD sheets.  
If yes, does TTO also need to be removed from MSD's monitoring? Yes ☐ No ☐  
If yes, discuss with inspector (name: \_\_\_\_\_) and explain why it had been monitored by MSD: \_\_\_\_\_
22. Does user have a history of compliance problems at this or a previous location? Yes ☐ No ☒  
If yes, explain problems: \_\_\_\_\_  
If yes, is a compliance schedule required? Yes ☐ No ☐  
If yes, Special Condition G.1 applies.  
Is supporting documentation attached? Yes ☐ No ☐  
If yes, are any other special requirements required? Yes ☐ No ☐  
Explain: \_\_\_\_\_
23. Is user required to monitor for Total Phenols at an ordinance SP? Yes ☒ No ☐  
If yes, does Special Condition D.3 for Total Phenols monitoring options apply? Yes ☒ No ☐
24. Has user chosen to employ continuous monitoring techniques for:  
pH? If yes, list points \_\_\_\_\_. SC E.29 & Gen Rpt "Cont-Mon pH Excursions" apply. Yes ☐ No ☒  
Temp? If yes, list points \_\_\_\_\_. SC E.30 & Gen Rpt "Cont-Mon Temp Excursions" apply. Yes ☐ No ☒  
LEL? If yes, list points \_\_\_\_\_. SC E.31 & Gen Rpt "Cont-Mon LEL Excursions" apply. Yes ☐ No ☒
25. Does the company perform any processes for which summaries of activities are needed? Yes ☐ No ☒  
If yes, Special Condition E.33 & General Report "Process Activity Summary" apply.
26. Are special billing conditions, other than the standard Special Conditions, needed? Yes ☐ No ☒  
If yes, describe: \_\_\_\_\_  
If yes, Special Condition F.4 applies.  
Does General Report "Discharge Volume for Billing" apply? Yes ☐ No ☐  
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐  
Are any Special Conditions, other than the standard special conditions, required? Yes ☐ No ☒
27. Are any Special Conditions, other than the standard special conditions, required? Yes ☐ No ☒  
If yes, explain: \_\_\_\_\_  
Which Special Condition applies? \_\_\_\_\_  
Is supporting documentation attached? Yes ☐ No ☐  
If no, explain: \_\_\_\_\_  
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
28. Is user a hauled waste industry, discharging its wastewater at the Hauled Waste Station? Yes ☐ No ☒  
If yes, have permit title, cover page language, & general conditions been modified? Yes ☐ No ☐  
If yes, Special Conditions B.9, D.13, H.1, and H.2 apply.
29. Is user classified as a Categorical Industrial User (CIU)? Yes ☐ No ☒  
If yes, complete part 2 of checklist. If no, STOP here.

List all the Special Conditions from Part 1 that are applicable to this permit.  
List those that are specific to a sampling point on that sampling point's fact sheet, too.  
List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

General Report	Special Condition #	Sampling Point #
_____	F.1	N/A
Rad Discharge	E.18	N/A
_____	D.10	001, 002, 003
_____	D.1	002
_____	E.4	002
_____	D.3	N/A
_____	_____	_____
_____	_____	_____



**Metropolitan St. Louis  
Sewer District**

Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, MO 63147-2913  
Phone: 314.768.6200 www.stlmsd.com

December 28, 2007

Skip Bowders, Energy Center Supervisor  
**ST LOUIS UNIVERSITY HOSPITAL**  
3635 Vista Ave; P.O. Box 15250  
St. Louis, MO 63110

**Re: Discharge Permit No: 4112195100 - 1**  
**For premise at: 3635 & 3655 Vista Ave. St. Louis, MO 63110**

Dear Mr. Bowders:

On December 13, 2007, the Metropolitan St. Louis Sewer District adopted new Sewer Use Ordinance No. 12559. This ordinance becomes effective January 1, 2008, and replaces Ordinance No. 8472. As a result, your Industrial Wastewater Discharge Permit is modified as per the attached modified permit for the above premise. We have reissued the entire permit for your convenience.

Among the changes in the new ordinance, it raises the limits for TTO and it updates the restrictions on radioactive materials to the sewer system. The new restrictions more closely parallel State and Federal regulations.

**MSD Ordinance No. 12559 limits the discharge of radioactive materials to sewers to what is allowed under your Nuclear Regulatory Commission and/or Missouri Department of Health licenses. The old ordinance restricted the aggregate discharge from all users to one curie/year for each sewage treatment plant. Please note that all radioactive material discharged to the sewer system must continue to be readily soluble or readily dispersible biological material, in water.**

If, at any time, the current level of radioactive materials discharge will increase by 20 percent or more, you must notify MSD, in writing at least ten business days prior to the date of the planned increase. This requirement is contained in Article VIII, Section Six of Ordinance No. 12559.

As a condition of the District's approval, you must continue to submit a completed copy of the Radioactive Materials Discharge Report to the District on a quarterly basis. This approval does not relieve you of any requirements set forth under applicable state or federal regulations. In addition, you must continue to meet all provisions of MSD District Ordinance 12559.

Thank you for your assistance in helping us to comply with state and federal regulations. If you have any questions, please call me at 314.436.8756.

Sincerely,  
**METROPOLITAN ST. LOUIS SEWER DISTRICT**

Scott M. Rehmer, Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit  
cc: Doug Mendoza  
Jim Goodall

PRIORITIES PERFORMANCE SERVICE

MSD 037278

METROPOLITAN ST. LOUIS SEWER DISTRICT  
DIVISION OF ENVIRONMENTAL COMPLIANCE  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195100 - 1

EFFECTIVE DATE: January 01, 2008  
EXPIRATION DATE: December 31, 2011

ISSUED TO: ST LOUIS UNIVERSITY HOSPITAL  
3635 & 3655 Vista Ave.  
P.O. Box 15250  
St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5

SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

  
\_\_\_\_\_  
Scott M. Rehmer  
Assistant Engineer

  
\_\_\_\_\_  
Douglas M. Mendoza, P.E.  
Mgr. of Industrial Pretreatment

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH in driveway W of loading dock at SW corner of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 77,279

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water (HVAC) + Sanitary + Hospital Waste (including x-ray waste) + Kitchen Waste + Boiler Blowdown + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION: MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 38,639

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste (including x-ray waste) + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 4,000

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: 6" t-vent inside W Pavilion parking garage 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 612

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Chemical Oxygen Demand	****	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids	****	Daily Avg	Once/year
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.



# DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: MH 93 ' S, 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 2,500

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

## DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

\* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

\*\* See Section I.A.2 of the permit conditions.

\*\*\* Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

\*\*\*\* See Section I.A.11 of the permit conditions.

## PERMIT CONDITIONS

### SECTION I - GENERAL CONDITIONS:

#### A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

- Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
- For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.
- For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

- a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.
- b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous temperature and/or pH monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, the total time for all excursions for temperature and the total time for all excursions for pH.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

<u>For the calendar quarter of:</u>	<u>The report must be postmarked no later than:</u>
January 1 through March 31	April 28
April 1 through June 30	July 28
July 1 through September 30	October 28
October 1 through December 31	January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report, under the terms of this permit, is due by April 28, 2008.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

#### B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:

- a. Any discharge from a new process or facility or a new source.
- b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
- e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
- g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

#### C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

#### D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

#### E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

#### F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

#### G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

#### H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District  
Division of Environmental Compliance  
10 East Grand Avenue  
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

## SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

### A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

#### A.1. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005, may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

### B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

#### B.1. Cert Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 004 permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, permittee shall include, in the quarterly self-monitoring report, a statement that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

#### B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
  - 5 curies Hydrogen-3
  - 1 curie Carbon-14
  - 1 curie for all other radioactive materials combined
- (2) For all other materials:
  - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

## C. SPECIAL BILLING REPORTING REQUIREMENTS

### C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on sixty-eight (68) percent of the used water (on an annual basis) being discharged to the District from account numbers 00447331 and 00208067. The permittee shall notify the District's Department of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

**THIS IS THE LAST PAGE OF THIS PERMIT**



METROPOLITAN ST. LOUIS SEWER DISTRICT  
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

**DOCUMENTATION FORM for PERMIT MODIFICATION**

Permit to be Modified:

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Location: **3635 & 3655 Vista Ave, STL, MO 63110**

Permit No: **4112195100**

Original Effective Date: **01/01/2007**

Modification Effective Date: **01/01/2008**

What is to be Modified:

Briefly explain what is to be modified and then list the pages & how affected::

**Sewer Use Ordinance 12559 in effect; Radioactive & TTO limits up**

Pg. # **1** **Effective date**

Pg. # **2-6** **For SP's, Limit change for TTO**

Pg. # **8** **First report due date**

Pg. # **12** **SC E.18 Radioactive Discharge Reporting Requirements**

Pg. # \_\_\_\_\_

Pg. # \_\_\_\_\_

Pg. # \_\_\_\_\_

Pg. # \_\_\_\_\_

Reasons for Modification:

Cite regulation, policy, etc. and identify any other documents which support the modification:

**MSD Ord. 12559 adopted 12-13-2007; effective 01-01-2008; supercedes Ord. 8472.**

Prepared by: S. Rehmer	Date: 12-27-2007
Reviewed by: <i>DRM</i>	Date: <i>12-31-07</i>

Permit Modified by: S. Rehmer	Date: 12-27-2007
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ACCOUNT NUMBER: 10205488-00

COMPANY NAME: ST LOUIS UNIVERSITY HOSP

CORRESPONDENCE

RIGHT SIDE

FROM 10-21-91 THRU 12-16-09

LEFT SIDE

FROM 12-18-92 THRU 01-20-06

X

CORRESPONDANCE LOCATED  
IN ARCHIVE FILES